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RANGARAYA MEDICAL COLLEGE, KAKINADA**

**2<sup>nd</sup> MBBS question papers from 2010 to 2020 UNDER Dr NTRUHS,  
Vijayawada.**

**505-A**

**M.B.B.S. DEGREE EXAMINATION – MARCH, 2010  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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**1. Write in brief the factors modifying drug action. 10**

**WRITE SHORT NOTES ON: 5X4=20**

**2. Therapeutic uses and adverse effects of aspirin**

**3. Therapeutic uses and adverse effects of Beta Blockers.**

**4. Potassium sparing diuretics.**

**5. Treatment of organo phosphorous compound poisoning.**

**6. Angiotensin antagonists.**

**WRITE BRIEFLY ON: 5X2=10**

**7. Write the pharmacological basis of using dopamine in  
cardiogenic shock.**

**8. What is a plasma expander? Give two examples.**

**9. Name four potassium channel openers.**

**10. Rationale of using ethyl alcohol in methyl alcohol poisoning.**

**11. What is propofol? Mention its clinical use.**

**M.B.B.S. DEGREE EXAMINATION – MARCH, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-II**

Time : 2 Hours

Max. Marks : 40

Answer all questions

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1. Classify antimalarial drugs. Write the mechanism of action, uses and adverse effects of chloroquine. 10

**WRITE SHORT NOTES ON:** 5x4=20

2. General pharmacological properties of aminoglycoside antibiotics.

3. Mechanism of action of clomiphene citrate.

4. Adverse effects of tetracyclines.

5. Metoclopramide.

6. Mechanism of action and adverse effects of carbimazole.

**WRITE BRIEFLY ON:** 5x2=10

7. Advantages of ranitidine over cimetidine.

8. What is tamoxifen? Mention one use.

9. What is mifepristone? Mention two uses.

10. Name four antiplatelet drugs.

11. Mention four uses of acyclovir.

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**M.B.B.S. DEGREE EXAMINATION – MARCH, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(BACTERIOLOGY & IMMUNOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

**Answer all questions**

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1. Discuss the cultural characteristics and pathogenicity of salmonella typhi. Describe briefly the laboratory diagnosis and prophylaxis of enteric fever. 10

**WRITE SHORT NOTES ON:** 5X4=20

2. Morphology and cultural characteristics of Yersinia Pestis.
3. Gaseous disinfectants.
4. Auto immunity.
5. Immuno fluorescence.
6. Urinary tract infections.

**WRITE BRIEFLY ON:** 5X2=10

7. BCG Vaccine.
8. Lyme disease.
9. Helicobacter Pylori.
10. Enriched Medium.
11. ASO (Anti-Streptolysin-O) Test.

**M.B.B.S. DEGREE EXAMINATION – MARCH, 2010  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 1. Discuss the morphology, life cycle and pathogenicity of plasmodium falciparum. Write briefly on the laboratory diagnosis of malaria. 10**

**WRITE SHORT NOTES ON: 5X4=20**

- 2. Hepatitis B. Virus Structure and name the serological tests in Hepatitis B infection.**
- 3. Laboratory diagnosis of intestinal amoebiasis.**
- 4. Larva migrans.**
- 5. Candidiasis.**
- 6. Viral Vaccines.**

**WRITE BRIEFLY ON: 5X2=10**

- 7. Antigenic drift and shift.**
- 8. Slow viral infections.**
- 9. Name two arboviral infections in India and its vectors.**
- 10. Four parasitic infections in Immuno-compromised patients.**
- 11. Morphology of Aspergillus.**

**M.B.B.S. DEGREE EXAMINATION – MARCH, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(GENERAL PATHOLOGY & HAEMATOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

**Answer all questions**

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1. A 30 year old pregnant lady who cherishes to eat food prepared by boiling, steaming and frying presented with anaemia, glossitis, mild icterus history of diarrhea, loss of appetite and lack of wellbeing.

No evidence of nervous system manifestations.

Her serum Homocysteine (HCYS) levels are elevated but not Methylmalonic acid (MMA) LEVELS.

- a) What is the provisional diagnosis?
- b) Describe the peripheral blood and bone marrow picture.
- c) Discuss the special tests in diagnosis. 10

**WRITE SHORT NOTES ON:** 5x4=20

2. Contrasting features of apoptosis and necrosis.
3. Chemokines.
4. Microbial carcinogenesis.
5. Pathogenesis of Amyloidosis.
6. Discuss various processes that participate in the formation of a SCAR.

**WRITE BRIEFLY ON:** 5x2=10

7. What is paradoxical embolism? Give an example.
8. Morphology of Actinomycotic Mycetoma.
9. Name two cytogenic disorders involving sexchromosomes and two involving autosomes.
10. "Taby cat" appearance of heart (Tigered effect).
11. Myeloblast of AML3.

**M.B.B.S. DEGREE EXAMINATION – MARCH, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

Time : 2 Hours

Max. Marks: 40

Answer all questions

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1. An adult male patient having coarctation of the Aorta and periodontal infection with habit of vigorous brushing of teeth came to the hospital with fever and anaemia. On examination there are crops of petechiae over the skin, subungual hemorrhages, small tender cutaneous nodules, pain in the splenic region and retinal hemorrhages.

Urine examination showed hematuria.

a) What is probable diagnosis? 10

b) Describe aetiopathogenesis and morphology of lesions in various organs involved.

c) Mention the complications.

**WRITE SHORT NOTES ON:**

**5x4=20**

2. Chronic contracted granular kidney.

3. Brenner tumour.

4. Morphology of pyogenic osteomyelitis.

5. Pathogenesis of Hepatocellular carcinoma.

6. Morphology of pheochromocytoma.

**WRITE BRIEFLY ON:**

**5x2=10**

7. Name the Benign and malignant tumors of the penis.

8. Warthin tumor.

9. Name four variant forms of Nevocellular Nevi.

10. Various histological types of Meningioma.

11. Various sites of chronic peptic ulcer.

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**M.B.B.S. DEGREE EXAMINATION – MARCH, 2010  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 1. Discuss in detail about signs, symptoms and treatment of ophitoxaemia. 10**

**WRITE SHORT NOTES ON: 5x4=20**

- 2. Dactylography**  
**3. Carbolism**  
**4. Cadaveric Spasm**  
**5. Hyoid Bone**  
**6. Bullet**

**WRITE BRIEFLY ON: 5x2=10**

- 7. Atavism**  
**8. Embalming**  
**9. Necrophilia**  
**10. LSD**  
**11. 'Tache noir'**

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505-A

**M.B.B.S. DEGREE EXAMINATION – AUGUST, 2010  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 10. Classify muscarinic receptor antagonists. Write in brief the pharmacological actions and therapeutic uses of atropine.**

**10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 11. Drug tolerance.**
- 12. Cardioselective beta blockers.**
- 13. Selective cox-2 inhibitors.**
- 14. Therapeutic uses and adverse effects of chlorpromazine.**
- 15. Furosemide (Frusemide).**

**WRITE BRIEFLY ON:**

**5X2=10**

- 16. What is plasma half life? Mention its clinical significance.**
- 17. Mention four factors influencing biotransformation of drugs.**
- 18. Rationale of using verapamil in supra ventricular tachycardia.**
- 10. Mention four drugs used in hypertensive emergencies.**
- 11. Mechanism of action of dantrolene and its two uses.**

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**M.B.B.S. DEGREE EXAMINATION – AUGUST, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-II**

Time : 2 Hours

Max. Marks : 40

Answer all questions

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10. Enumerate the drugs used in tuberculosis. Write the mechanism of action and adverse effects of INH. 10

**WRITE SHORT NOTES ON:** 5x4=20

- 11. Preparations of insulin.
- 12. Antiestrogens.
- 13. Alkylating agents.
- 14. Anti tussives.
- 15. Fibrinolytic agents.

**WRITE BRIEFLY ON:** 5x2=10

- 16. What is sequential blockade? Give one example.
- 17. Name third generation cephalosporins.
- 18. Rationale of using oxytocin for induction of labour.
- 10. Mention four relative contraindications of corticosteroids.
- 11. Rationale of combination of magnesium trisilicate and aluminium hydroxide as antacids.

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**M.B.B.S. DEGREE EXAMINATION – AUGUST, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(BACTERIOLOGY & IMMUNOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

**Answer all questions**

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10. Classify mycobacteria of medical importance. Describe pathogenesis and laboratory diagnosis of pulmonary tuberculosis. Add a note on RNTCP. (2+2+4+2=10)

**WRITE SHORT NOTES ON:**

**5X4=20**

11. Anaphylaxis.
12. Hot Air Oven.
13. Enzyme Linked Immunosorbent Assay (ELISA).
14. Laboratory Diagnosis of Syphilis.
15. Gas gangrene.

**WRITE BRIEFLY ON:**

**5X2=10**

16. Selective Media.
17. Structure of Immunoglobulin – M
18. Satellitism.
10. Halophilic vibrios.
11. Two differences between exotoxin and endotoxin.

**M.B.B.S. DEGREE EXAMINATION – AUGUST, 2010  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 10. Discuss the morphology, pathogenecity and lab diagnosis of Rhabdovirus. Describe briefly the post exposure prophylaxis in rabies. 2+2+3+3=10**

**WRITE SHORT NOTES ON: 5X4= 20**

- 11. Dermatophytes.**
- 12. Arboviral infections in India.**
- 13. Hydatid cyst.**
- 14. Mucormycosis.**
- 15. Ascaris Lumbricoides.**

**WRITE BRIEFLY ON: 5X2= 10**

- 16. Interferon.**
- 17. MMR vaccine.**
- 18. NIH swab**
- 10. Draw two non-bile stained Eggs.**
- 11. Name two organisms causing primary amoebic meningoencephalitis.**

**M.B.B.S. DEGREE EXAMINATION – AUGUST, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(GENERAL PATHOLOGY & HAEMATOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

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**Answer all questions**

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**12. An young boy came with the history of massive hemorrhage after trauma, recurrent haemarthrosis in large joints, muscle hematomas and progressive deformities leading to crippling. Some of the family members also suffered with identical clinical manifestations.**

**a) What is the provisional diagnosis?**

**b) Discuss various laboratory investigations to confirm the diagnosis.**

**10**

**WRITE SHORT NOTES ON:**

**5x4=20**

**13. Blood picture and bone marrow findings in CML.**

**14. E.S.R.**

**15. Exfoliative cytology.**

**16. Actinomycosis.**

**17. CNS manifestations of AIDS.**

**WRITE BRIEFLY ON:**

**5x2=10**

**18. Fate of a thrombus.**

**19. Name four chemical mediators of inflammation.**

**20. Vitamin A deficiency consequences.**

**21. Miliary tuberculosis.**

**22. Specific gravity of urine.**

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**M.B.B.S. DEGREE EXAMINATION – AUGUST, 2010**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

Time : 2 Hours

Max. Marks: 40

Answer all questions

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10. 40 year old female presented with lump in the breast. The lump is hard and adhered to the underlying structures and axillary lymph nodes are enlarged. 10
- a) What is the provisional diagnosis?
  - b) How do you classify them?
  - c) Discuss the etiology and pathogenesis of the lesion.

**WRITE SHORT NOTES ON:**

5x4=20

- 11. Gross and microscopic picture of lobar pneumonia.
- 12. Pleomorphic adenoma – salivary gland.
- 13. Morphology of Alcoholic cirrhosis.
- 14. Dermoid cyst-ovary.
- 15. Morphology of Meningiomas.

**WRITE BRIEFLY ON:**

5x2=10

- 16. Condyloma acuminata
- 17. Endometriosis.
- 18. Histology of malignant melanoma.
- 10. Leukoplakia.
- 11. Sequestrum.

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**M.B.B.S. DEGREE EXAMINATION – AUGUST, 2010  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 10. Describe signs, symptoms, treatment and medicolegal aspect of acute arsenic poisoning. 10**

**WRITE SHORT NOTES ON: 5x4=20**

- 11. Rigor mortis**  
**12. Professional death sentence**  
**13. Confirmative signs of pregnancy**  
**14. Drug dependence**  
**15. Viscera preservation**

**WRITE BRIEFLY ON: 5x2=10**

- 16. Tattoo marks**  
**17. Tandem bullet**  
**18. Tribadism**  
**10. Tentative cuts**  
**11. Tardieu spots**

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505-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2011  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 19. Classify the drugs used in epilepsy. Write the mechanism of action and adverse effects of sodium valproate.**

**10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 20. Mechanism of action and therapeutic uses of digoxin.**
- 21. Drug antagonism**
- 22. Indications of prazosin and its adverse effects.**
- 23. Advantages and disadvantages of halothane.**
- 24. Acetazolamide.**

**WRITE BRIEFLY ON:**

**5X2=10**

- 25. Mechanism of action of Tramadol.**
- 26. What is Iatrogenicity? Give two examples.**
- 27. Therapeutic uses of reversible anti cholinesterases.**
- 10. What is tachyphylaxis? Give two examples.**
- 11. Two uses and two adverse effects of imipramine.**

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**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2011**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-II**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 19. Classify Fluoroquinolones. Write the mechanism of action, therapeutic uses and adverse effects of ciprofloxacin. 10**

**WRITE SHORT NOTES ON: 5x4=20**

- 20. Mechanism of action and adverse effects of sulfonylureas.**
- 21. Mucolytics.**
- 22. Preparations of Iron.**
- 23. Lepra reaction.**
- 24. Methotrexate.**

**WRITE BRIEFLY ON: 5x2=10**

- 25. Rationale of using ergometrine in post partum haemorrhage.**
- 26. Rationale of combination of pyrimethamine and sulfadoxine in malaria.**
- 27. Mention any two - two week drug treatment regimens used in Helicobacter pylori infection.**
- 10. Rationale of combination of estrogen and progestin as oral contraceptive.**
- 11. Mechanism of action of diethyl carbamazine.**



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**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2011  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(BACTERIOLOGY & IMMUNOLOGY)  
PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 19. Name the bacterial agents causing diarrhea. Write the pathogenesis and laboratory diagnosis of cholera. 10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 20. Bacterial capsule.**  
**21. Anaerobic culture methods.**  
**22. Elek's gel precipitation test.**  
**23. Hot air oven.**  
**24. ELISA.**

**WRITE BRIEFLY ON:**

**5x2=10**

- 25. Louis Pasteur.**  
**26. Bacterial conjugation.**  
**27. Quellung reaction.**  
**10. Relapsing fever.**  
**11. Type IV hypersensitivity.**

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**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2011  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 19. Write the morphology, pathogenesis and laboratory diagnosis of Rabies virus. Add a note on its prophylaxis. 10**

**WRITE SHORT NOTES ON: 5X4=20**

- 20. Cultivation of viruses.**
- 21. Dengue fever.**
- 22. Life cycle of Entamoeba histolytica.**
- 23. Larva migrans.**
- 24. Mycetoma.**

**WRITE BRIEFLY ON: 5X2=10**

- 25. Name 4 oncogenic viruses.**
- 26. Name 4 viruses causing diarrhoea.**
- 27. Morphology of microfilaria.**
- 10. Name 4 opportunistic parasitic infections in HIV patients.**
- 11. Morphology of Rhizopus.**

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**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2011**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(GENERAL PATHOLOGY & HAEMATOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

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**Answer all questions**

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1. A homosexual individual who is also an intravenous drug abuser with history of persistent generalized lymphadenopathy (PGL) and chronic diarrhea came to sexually transmitted diseases (STD) OPD with mucosal candidiasis, fever, oral hairy leukoplakia and loss of more than 10% body weight. There is a fall in CD4+ T cells count. **10**
- a) What is the provisional diagnosis?  
b) Describe the sequences of events in the pathogenesis of the disease.  
c) Discuss various tests used for diagnosis and for monitoring treatment of the same.

**WRITE SHORT NOTES ON:**

**5x4=20**

2. Paraneoplastic syndromes.
3. Peripheral smear and bone marrow picture in megaloblastic anemia.
4. Growth factors involved in tissue regeneration and repair.
5. Haematocrit.
6. Arachidonic acid metabolites and their role in inflammation.

**WRITE BRIEFLY ON:**

**5x2=10**

7. Phlebothrombosis.
8. Clinical features and karyotypes of Turner Syndrome.
9. Mode of action of anticoagulants.
10. Pathogenesis of dystrophic calcification.
11. Name four tumor suppressor genes.

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**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2011**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

Time : 2 Hours

Max. Marks: 40

Answer all questions

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1. A 43 year old male, chronic alcoholic dies after a bout of profuse hematemesis. 10  
a) What is the probable diagnosis?  
b) Describe the morphological changes in the target organ involved.  
c) Write the sequential events that have lead to death.  
**WRITE SHORT NOTES ON:** 5x4=20
2. Astrocytoma.
3. Morphology of Giant Cell Tumor of Bone.
4. Renal dysplasia.
5. Pathology of Aortic dissection.
6. Medullary carcinoma breast.
- WRITE BRIEFLY ON:** 5x2=10
7. Name four preneoplastic lesions of skin.
8. Name the causes of left ventricular hypertrophy.
9. Four clinical features of primary hyper-parathyroidism.
10. Adenomyosis.
11. Name the histologic variants of carcinoma lung.

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**M.B.B.S. DEGREE EXAMINATION – JANURARY, 2011  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Answer all questions

- 
1. Define drowning; Discuss the mechanism of death and postmortem appearances in a case of drowning. 10

**WRITE SHORT NOTES ON:** 5x4=20

2. Conduct money.  
3. Turner's Syndrome.  
4. Algor mortis.  
5. Café Coronary.  
6. Sexual Asphyxia.

**WRITE BRIEFLY ON:** 5x2=10

7. Sec 84 IPC.  
8. Cephalic Index.  
9. Toxalbumen.  
10. Psychopath.  
11. Perjury.

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505-A

**M.B.B.S. DEGREE EXAMINATION – JULY, 2011  
SECOND M.B.B.S. EXAMINATION**

**PHARMACOLOGY  
PAPER-I**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 28. Classify Antihypertensives. Write the pharmacological actions and therapeutic uses of Angiotensin converting enzyme inhibitors. 10**

**WRITE SHORT NOTES ON: 5X4=20**

- 29. Mechanism of action of Succinylcholine.**
- 30. Selective serotonin reuptake inhibitors.**
- 31. Beta-2 stimulants.**
- 32. Mechanism of action and indications of Neostigmine.**
- 33. Therapeutic uses and adverse effects of Morphine.**

**WRITE BRIEFLY ON: 5X2=10**

- 34. Mention the benefits obtained on combining carbidopa with levodopa.**
- 35. Write two uses of nitrates with rationale.**
- 36. Mention two uses and two adverse effects of sodium valproate.**
- 10. What is Up regulation and Down regulation of receptors? Give examples.**
- 11. List two classes of drugs used in the therapy of migraine.**

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**M.B.B.S. DEGREE EXAMINATION – JULY, 2011**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-II**

Time : 2 Hours

Max. Marks : 40

Answer all questions

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28. Enumerate the drugs used in Amoebiasis. Write the mechanism of action, clinical uses and adverse effects of Metronidazole. 10

**WRITE SHORT NOTES ON:**

5x4=20

29. Uterine stimulants.
30. Mechanism of action and uses of cyclosporine.
31. Name third generation cephalosporins. Mention their clinical uses.
32. Protease inhibitors.
33. Role of corticosteroids in the treatment of Bronchial Asthma.

**WRITE BRIEFLY ON:**

5x2=10

34. Name two oral and two injectable iron preparations.
35. What is super infection? Give one example.
36. Uses and adverse effects of Rifampicin.
10. Name two alkaloids used in cancer therapy. Mention one use.
11. Name two chelating agents. Mention one use of each.



506-A

**M.B.B.S. DEGREE EXAMINATION – JULY, 2011  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(BACTERIOLOGY & IMMUNOLOGY)  
PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 28. Define and classify hypersensitivity. Write in detail about Type I hypersensitivity. 10**

**WRITE SHORT NOTES ON: 5X4=20**

- 29. Transduction.**  
**30. PCR (Polymerase Chain Reaction).**  
**31. Coagulase Test.**  
**32. VDRL.**  
**33. Acquired immunity.**

**WRITE BRIEFLY ON: 5X2=10**

- 34. 'IMViC' test.**  
**35. Tyndallization**  
**36. M'Fadyean's reaction.**  
**10. Neill Mooser reaction.**  
**11. Graft Vs Host reaction.**

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**M.B.B.S. DEGREE EXAMINATION – JULY, 2011  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 28. Name the blood and tissue flagellates. Write the morphology, life cycle and lab diagnosis of Kala-azar.**

**10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 29. Herpes simplex virus.**
- 30. Bacteriophage.**
- 31. Life cycle of Ancylostoma duodenale.**
- 32. Life cycle of Taenia saginata.**
- 33. Dermatophytes.**

**WRITE BRIEFLY ON:**

**5X2=10**

- 34. Morphology of HIV**
- 35. Name four (4) slow viral diseases.**
- 36. Name two (2) free living amoebae**
- 10. Morphology of Hydatid cyst.**
- 11. Name four (4) opportunistic fungal infections.**

507-A

**M.B.B.S. DEGREE EXAMINATION – JULY, 2011  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(GENERAL PATHOLOGY & HAEMATOLOGY)  
PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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**23. 35 year old female presented with fatigue, weakness, glossitis and peripheral neuropathy. 10**

- a) What is the provisional diagnosis?
- b) What special investigations we do in this case to confirm the diagnosis?
- c) Describe the blood and bone marrow picture.

**WRITE SHORT NOTES ON:**

**5x4=20**

- 24. Chemotaxis.
- 25. Primary complex.
- 26. Rhinosporidiosis.
- 27. Klinefelter's syndrome.
- 28. Amyloidosis of spleen.

**WRITE BRIEFLY ON:**

**5x2=10**

- 29. Fate of a Thrombus.
- 30. Blood Transfusion reactions.
- 31. Pathways of spread of malignant tumors.
- 32. Hypertrophy and Hyperplasia.
- 33. Hypovolaemic Shock.

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**M.B.B.S. DEGREE EXAMINATION – JULY, 2011**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

Time : 2 Hours

Max. Marks: 40

Answer all questions

- 
19. 60 year old male presented with substernal pain radiating to the arms, sweating and dyspnoea. .  
10

- a) What is the provisional diagnosis?
- b) Discuss the evolution of pathologic changes in this condition?
- c) What are the complications?

**WRITE SHORT NOTES ON:**

5x4=20

20. Bronchiectasis.
21. Glioblastoma.
22. Seminoma.
23. Hashimoto's Thyroiditis.
24. Chronic Pyelonephritis.

**WRITE BRIEFLY ON:**

5x2=10

*Microscopic picture of the following:*

25. Chronic Gastric ulcer.
26. Osteoclastoma.
27. Hydatidiform mole.
10. Reed-Sternberg Giant cells.
11. Alcoholic cirrhosis.

- - -

508-A

**M.B.B.S. DEGREE EXAMINATION – JULY, 2011  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 19. Describe the symptoms, signs, treatment and autopsy findings in a case of organophosphorous poisoning.**

**10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 20. Battered Baby Syndrome.**  
**21. Dying Declaration.**  
**22. Choking.**  
**23. Narco-Analysis.**  
**24. Classification of injuries.**

**WRITE BRIEFLY ON:**

**5x2=10**

- 25. Dowry death.**  
**26. Illusion.**  
**27. Tardieu Spots.**  
**10. Holograph.**  
**11. Expert Witness.**

- - -

505-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2012  
SECOND M.B.B.S. EXAMINATION**

**PHARMACOLOGY  
PAPER-I**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 37. Classify Antiepileptics. Write the mechanism of action and adverse effects of Phenytoin. 10**

**WRITE SHORT NOTES ON: 5X4=20**

- 38. What is pharmacogenetics? Give examples.**
- 39. Synthetic Atropine substitutes used in therapy.**
- 40. Mechanism of action and therapeutic uses of Acetazolamide.**
- 41. Atypical neuroleptics.**
- 42. Write the beneficial effects of nitrates used in angina pectoris.**

**WRITE BRIEFLY ON: 5X2=10**

- 43. Advantages of Benzodiazepines over Barbiturates as sedatives.**
- 44. Pharmacological basis of using low dose aspirin in post myocardial infarction patients.**
- 45. What is plasma half life? Mention its clinical significance.**
- 10. Mention two advantages and two disadvantages of Halothane.**
- 11. What is Dantrolene sodium? Mention its uses.**

- - -

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2012**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-II**

Time : 2 Hours

Max. Marks : 40

Answer all questions

---

37. Enumerate Fluoroquinolones. Write the mechanism of action and therapeutic uses of Ciprofloxacin.

10

**WRITE SHORT NOTES ON:**

5x4=20

38. Beta-lactamase inhibitors.
39. Therapeutic uses of corticosteroids.
40. Radioactive iodine.
41. Fibrinolytics.
42. Antitussives.

**WRITE BRIEFLY ON:**

5x2=10

43. Mention mechanism of action and one use of Diethylcarbamazine citrate.
44. Mention four therapeutic uses of Chloroquine.
45. What is the rationale of combining Pyrimethamine with Sulphonamide?
10. Name two Purine antagonists. Mention two uses.
11. What is Domperidone? Mention one use.

506-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2012**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(BACTERIOLOGY & IMMUNOLOGY)**  
**PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 37. Define and classify sterilization. Write in detail about moist heat sterilization.**

**10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 38. Bacterial spore.**
- 39. Widal test.**
- 40. Nagler reaction.**
- 41. Atypical Mycobacteria.**
- 42. Autoimmunity.**

**WRITE BRIEFLY ON:**

**5X2=10**

- 43. L-forms of bacteria.**
- 44. Selective media**
- 45. Classify Streptococci.**
- 10. Lepromin test.**
- 11. Draw diagram of IgM and label its parts.**

- - -



**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2012  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 37. Name the intestinal nematodes. Write the morphology, life cycle and lab diagnosis of *Ascaris lumbricoides*.**

**10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 38. Prophylaxis of poliomyelitis.**
- 39. Viral replication.**
- 40. Life cycle of *Echinococcus granulosus*.**
- 41. Life cycle of *Wuchereria bancrofti*.**
- 42. Candidiasis.**

**WRITE BRIEFLY ON:**

**5X2=10**

- 43. Name four (4) arboviral diseases in India**
- 44. Antigenic shift and drift.**
- 45. Morphology of *Balantidium***
- 10. Morphology of *Trichomonas vaginalis*.**
- 11. Name four (4) deep mycotic fungi.**

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2012**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(GENERAL PATHOLOGY & HAEMATOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

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**Answer all questions**

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**34. A 4 years old male child presented with fatigue, fever, epistaxis, bleeding gums, bone pain and CNS manifestations from meningeal involvement. Physical examination revealed petechiae and ecchymoses of skin and mucous membranes, generalized lymphadenopathy and testicular enlargement. The leukocyte and differential counts were abnormal. 1+4+3+3=10**

- a) What is the provisional diagnosis?
- b) Discuss various main laboratory investigations to make a final diagnosis.
- c) Describe peripheral blood and bone marrow picture.
- d) Discuss molecular pathogenesis of the disease.

**WRITE SHORT NOTES ON:**

**5x4=20**

**35. Role of Selectins and Integrins involved in the inflammatory response.**

**36. von Willebrand disease.**

**37. Systemic Thrombo embolism.**

**38. Physical and chemical nature of Amyloid**

**39. Important growth factors modulating tumor growth and biology.**

**WRITE BRIEFLY ON:**

**5x2=10**

**40. Barr bodies.**

**41. Autophagy.**

**42. Skeletal changes in Rickets.**

**43. Late manifestations of congenital Syphilis.**

**44. Frozen section.**

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2012**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

Time : 2 Hours

Max. Marks: 40

**Answer all questions**

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**28. A 58 year old male labourer presented with history of epigastric pain occurring immediately and sometimes within two hours of taking food. The pain relieved by vomiting. He had good appetite but afraid to eat and used to take bland diet. There is significant loss of body weight and deep tenderness present in the mid line of epigastrium.**  
**1+3+4+2=10**

- a) What is the provisional diagnosis?
- b) Discuss the etiopathogenesis.
- c) Describe the morphology of the lesion.
- d) Mention the complications.

**WRITE SHORT NOTES ON:****5x4=20**

- 29. Describe gross and microscopic picture of Pleomorphic adenoma.**
- 30. Medullary carcinoma thyroid.**
- 31. Cervical intraepithelial neoplasia.**
- 32. Morphology of Lobar pneumonia.**
- 33. Astrocytoma.**

**WRITE BRIEFLY ON:****5x2=10**

- 34. Gross pathology of kidneys in benign and malignant nephrosclerosis.**
- 35. Microscopic picture of malignant melanoma.**
- 36. Mac Callum plaques.**
- 10. Paget disease of Breast.**
- 11. Four (4) conditions known to be associated with development of Osteosarcoma.**

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508-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2012  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 28. Describe the signs, symptoms, fatal dose, treatment and post-mortem findings in a case of Methyl alcohol poisoning.**

**10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 29. Difference between rigor mortis and cadaveric spasm.**
- 30. Dactylography.**
- 31. Doctrine of Res Ipsa Loquitur.**
- 32. Diatom test.**
- 33. Dowry death.**

**WRITE BRIEFLY ON:**

**5x2=10**

- 34. Burking.**
- 35. Basophilic stippling.**
- 36. Brush burn.**
- 10. Bondage.**
- 11. Breslau second life test.**

- - -

505-A

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-I**

Time : 2 Hours

Max. Marks : 40

Answer all questions

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1. Classify antihypertensive drugs. Explain the mechanism of action and enumerate the adverse effects of any two of them. 3+7= 10

**WRITE SHORT NOTES ON:** 5X4=20

2. Uses of adrenaline
3. Define a receptor. Write briefly the functioning of G protein coupled receptor
4. Paracetamol
5. Adverse effects of Phenytoin
6. Mechanism of action and adverse effects of furosemide

**WRITE BRIEFLY ON:** 5X2=10

7. Treatment of organophosphorus poisoning.
8. What is a prodrug? Give 2 examples.
9. Name the preferred antiarrhythmic used in a) Ventricular arrhythmia b) Paroxysmal Supraventricular Tachycardia (PSVT)
10. What is balanced anaesthesia? Name two drugs used in preanesthetic medication.
11. Fluvoxamine is used in depression – give reason.

- - -

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-II**

Time : 2 Hours

Max. Marks : 40

Answer all questions

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46. Classify cephalosporins. Write their general therapeutic uses and adverse effects.

10

**WRITE SHORT NOTES ON:**

5x4=20

47. Glucocorticoids in bronchial asthma
48. Compare and contrast propylthiouracil and methimazole
49. Antacids
50. Isoniazid
51. Enumerate the antiretroviral drugs. Write the adverse effects of any two of them.

**WRITE BRIEFLY ON:**

5x2=10

52. Leucovorin rescue
53. Adverse effects of chloroquine.
54. Name 2 insulin analogs and mention 2 advantages of them
10. Name 2 antiplatelet drugs and write 2 uses of them
11. List 4 drugs used in anaerobic infections.

506-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(BACTERIOLOGY & IMMUNOLOGY)**  
**PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 46. Describe the virulence factors of Neisseria gonorrhoeae with the help of diagram. Describe the laboratory diagnosis of gonorrhea. Add a note on the chemotherapy of the condition.**  
**10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 47. Immunoglobulin A**
- 48. Western blot test.**
- 49. The lection pathway of complement activation**
- 50. Enteropathogenic Escherichia coli**
- 51. Bartonella quintana**

**WRITE BRIEFLY ON:**

**5X2=10**

- 52. Superantigens**
- 53. Treponema Pallidum hemagglutination test**
- 54. Tumor necrosis factor**
- 10. Cold agglutination test**
- 11. Anaphylaxis reaction**



**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(VIROLOGY, MYCOLOGY & PARASITOLOGY)**  
**PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 46. Classify Arbo viruses and list the Arbo viruses prevalent in India. Write in detail about the pathogenesis and clinical features of Dengue. Add a note on the laboratory diagnosis of dengue.**

**(3+5+2=10)**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 47. Pathogenesis and laboratory diagnosis of toxoplasmosis**
- 48. Laboratory diagnosis of malaria.**
- 49. Pathogenesis and laboratory diagnosis of neurocysticercosis.**
- 50. Cryptococcus neoformans**
- 51. Larva migrans**

**WRITE BRIEFLY ON:**

**5X2=10**

- 52. Germ tube test**
- 53. Pathogenesis of HIV/AIDS**
- 54. Viruses causing gastroenteritis**
- 10. Post Kala-azar dermal leishmaniasis**
- 11. DEC provocation test**

507-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(GENERAL PATHOLOGY & HAEMATOLOGY)  
PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 45. Young male met with an accident. Had fracture femur. C/o breathlessness and chest pain, cough and frothy sputum. 10**
- a) What is the provisional diagnosis**  
**b) In What other conditions can produce similar symptoms.**

**WRITE SHORT NOTES ON: 5x4=20**

- 46. Granuloma**  
**47. Primary complex**  
**48. Down's syndrome**  
**49. Spread of tumors**  
**50. Classification of Lymphomas**

**WRITE BRIEFLY ON: 5x2=10**

- 51. Chemotaxis**  
**52. Bence Jones Protein**  
**53. Megakaryocyte**  
**10. Bombay Blood Group**  
**11. Myeloblast.**

- - -

507-B

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(SYSTEMIC PATHOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

**37. 60 Yrs male c/o painless, hematuria with pain in Loin.  
10**

- a) What is the provisional diagnosis?
- b) What are the investigations to confirm?
- c) Enumerate the Gross & Microscopic picture.

**WRITE SHORT NOTES ON:**

**5x4=20**

- 38. Barrett's Oesophagus**
- 39. Aetiology of Cirrhosis**
- 40. Gall Stones**
- 41. Dysgerminoma**
- 42. Fibro-Cystic disease of breast.**

**WRITE BRIEFLY ON:**

**5x2=10**

- 43. Types of Aneurysm**
- 44. Microscopic types of Carcinoma Lung**
- 45. Surface epithelial tumors of ovary.**
- 10. Urinary findings in Nephritis.**
- 11. Vegetations.**

- - -

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

**37. Define and classify injuries.**

**10**

**Describe different types of abrasions and mention their**

**Medico-legal importance.**

**WRITE SHORT NOTES ON:**

**5x4=20**

**38. Contributory negligence**

**39. Chelating agents**

**40. Caffey syndrome**

**41. Conditions simulating rigor mortis**

**42. Causes of impotency in male**

**WRITE BRIEFLY ON:**

**5x2=10**

**43. Abrasion collar**

**44. Antidotes**

**45. Arborescent markings**

**10. Atavism**

**11. Abortion Stick.**

505-A

- - -

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I**

Time : 2 Hours

Max. Marks : 40

**Answer all questions**

---

10. Classify Beta adrenergic blocking drugs. Write the  
10  
Pharmacological actions, therapeutic uses and  
contraindications of propranolol.

**WRITE SHORT NOTES ON:**

**5X4=20**

11. Mechanism of action and therapeutic uses of neostigmine
12. Mechanism of action and therapeutic uses of amlodipine
13. Mechanism of action and therapeutic uses of dantrolene
14. Advantages and disadvantages of nitrous oxide as general  
anaesthetic
15. Advantages and disadvantages of intravenous route of  
drug administration.

**WRITE BRIEFLY ON:**

**5X2=10**

16. Mechanism of action and therapeutic uses of tamsulosin.
17. Mention two therapeutic uses of mannitol with route of  
administration.
18. Mention four drugs used in absence seizure (Petit mal  
epilepsy)
10. Mention four newer drugs used in treatment of Parkinsonism.
11. Define drug synergism and drug antagonism.

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-II**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

---

- 55. Classify penicillins. Describe the mechanism of action, adverse effects and therapeutic uses of benzyl penicillin.**

**2+3+2+3= 10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 56. Name therapeutic uses and adverse effects of corticosteroids.**
- 57. Adverse effects and therapeutic uses of metronidazole.**
- 58. Mechanism of action and therapeutic uses of streptokinase.**
- 59. Mechanism of action and adverse effects of zidovudine.**
- 60. Mechanism of action and therapeutic uses of methotrexate.**

**WRITE BRIEFLY ON:**

**5x2=10**

- 61. Two advantages and two disadvantages of Radio Active Iodine.**
- 62. Mention two mast cell stabilizers used in therapy and two uses of them.**
- 63. Two therapeutic uses of d-penicillamine.**
- 10. Two Adverse effects and two uses of Rifampicin.**
- 11. Mention two tocolytic drugs and two therapeutic uses of them.**

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(BACTERIOLOGY & IMMUNOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

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**Answer all questions**

---

55. Describe the virulence factors of *Neisseria gonorrhoeae* with the help of a diagram. Describe the laboratory diagnosis of gonorrhoea. Add a note on the chemotherapy of the condition. 4+3+3=10

**WRITE SHORT NOTES ON:**

5X4=20

56. Immunoglobulin A
57. Enrichment media
58. The Lectin pathway of complement activation
59. Enteropathogenic *Escherichia coli*
60. *Bartonella quintana*

**WRITE BRIEFLY ON:**

5X2=10

61. Superantigens
62. *Treponema Pallidum* hemagglutination test
63. Tumor necrosis factor
10. Cold agglutination test
11. Anaphylaxis reaction

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 55. Classify Arbo viruses and list the Arbo viruses prevalent in India.  
Write in detail about the pathogenesis and clinical features of Dengue. Add a note on the laboratory diagnosis of dengue. 10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 56. Pathogenesis and laboratory diagnosis of toxoplasmosis**
- 57. Laboratory diagnosis of malaria.**
- 58. Pathogenesis and laboratory diagnosis of neurocysticercosis.**
- 59. Cryptococcus neoformans**
- 60. Larva migrans**

**WRITE BRIEFLY ON:**

**5X2=10**

- 61. Germ tube test**
- 62. Pathogenesis of HIV/AIDS**
- 63. Viruses causing gastroenteritis**
- 10. Post Kala-azar dermal leishmaniasis**
- 11. Ectothrix**



507-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(GENERAL PATHOLOGY & HAEMATOLOGY)**  
**PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 54. Young male met with an accident. Had fracture femur. c/o Breathlessness and chest pain, cough and frothy sputum. 10**
- a) What is the provisional diagnosis?**
- b) In what other conditions can produce similar symptoms.**

**WRITE SHORT NOTES ON: 5x4=20**

- 55. Granuloma**
- 56. Primary complex**
- 57. Down's Syndrome**
- 58. Spread of tumors**
- 59. Classification of Lymphomas**

**WRITE BRIEFLY ON: 5x2=10**

- 60. Chemotaxis**
- 61. Bence Jones Protein**
- 62. Megakaryocyte**
- 10. Bombay Blood Group**
- 11. Myeloblast**

- - -

507-B

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(SYSTEMIC PATHOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

**46. 60 yrs male c/o painless, hematuria with pain in Loin. 10**

- a) What is the provisional diagnosis?
- b) What are the investigations to confirm?
- c) Enumerate the Gross & Microscopic picture.

**WRITE SHORT NOTES ON:**

**5x4=20**

- 47. Barrett's Oesophageus
- 48. Aetiology of Cirrhosis
- 49. Gall Stones
- 50. Dysgerminoma
- 51. Fibro-cystic disease of breast.

**WRITE BRIEFLY ON:**

**5x2=10**

- 52. Types of Aneurysm
- 53. Microscopic types of Carcinoma Lung
- 54. Surface epithelial tumors of ovary.
- 10. Urinary findings in Nephritis
- 11. Vegetations.

- - -

508-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2013  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 46. Classify Fire Arms. Describe the wounds caused by Shot Gun missile at different ranges of Firing.**

**10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 47. Euthanasia**  
**48. Cadaveric Spasm**  
**49. Delusions**  
**50. Hydrostatic Test**  
**51. Types of Drowning**

**WRITE BRIEFLY ON:**

**5x2=10**

- 52. Carboluria**  
**53. Run Amok**  
**54. Lochia**  
**10. Conduct money**  
**11. Filigree Burns.**

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**M.B.B.S. DEGREE EXAMINATION – JULY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-I**

Time : 2 Hours

Max. Marks : 40

Answer all questions

---

19. Enumerate the antipsychotics. Explain the mechanism of action and enumerate the adverse effects and uses of Chlorpromazine. 10

**WRITE SHORT NOTES ON:** 5X4=20

20. Uses and adverse effects of diazepam
21. Give the comparison and contrast between tubocurarine and succinylcholine
22. Transdermal drug administration
23. Name 4 antihypertensive drugs. Write the pharmacological basis for use in hypertension of any two of them.
24. Pharmacokinetic drug interactions

**WRITE BRIEFLY ON:** 5X2=10

25. What is therapeutic index? Name two drugs that have low therapeutic index.
26. Morphine is used in myocardial infarction – give reason
27. Atropine is used in organophosphorus poisoning – give reason
10. Sildenafil should be avoided in patients receiving organic nitrates – give reason.
11. Name 2 potassium sparing diuretics and 2 loop diuretics.

**M.B.B.S. DEGREE EXAMINATION – JULY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**PHARMACOLOGY**  
**PAPER-II**

Time : 2 Hours

Max. Marks : 40

Answer all questions

---

64. Enumerate oral antidiabetic drugs. Write the mechanism of action and adverse effects of any two of them.  
3+5+2=10

**WRITE SHORT NOTES ON:**

5x4=20

65. Indications and adverse effects of oral and parenteral iron.
66. Ciprofloxacin.
67. Ranitidine.
68. Name the first line antitubercular drugs. Write the mechanism of action and adverse effects of any one of them
69. Enumerate aminoglycosides. List the common properties of aminoglycosides.

**WRITE BRIEFLY ON:**

5x2=10

70. Name 4 antimicrobials used in anaerobic infections
71. Advantages of combination of antimicrobial agents.
72. Name 4 glucocorticoid preparations
10. Why MESNA (2 – mercaptoethanesulfonate) is given in patients receiving cyclophosphamide – give reason.
11. Estrogen and progesterone are used together for contraception – give reason

**M.B.B.S. DEGREE EXAMINATION – JULY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(BACTERIOLOGY & IMMUNOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

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**Answer all questions**

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64. Describe the suppurative and nonsuppurative clinical manifestations of streptococcus pyogenes infections. Add a note on the diagnosis of acute rheumatic fever. 5+5= 10

**WRITE SHORT NOTES ON:**

5X4=20

65. Immunodeficiency diseases associated with disorders of Phagocytosis
66. Differences between primary and secondary immune responses
67. Type II cytotoxic hypersensitivity
68. Food poisoning due to Bacillus cereus
69. Virulence factors of Vibrio cholerae

**WRITE BRIEFLY ON:**

5X2=10

70. Graft- versus-host response
71. Weil - Felix test
72. Bacterial cell wall
10. HACEK group of organisms
11. Transfer factor

**M.B.B.S. DEGREE EXAMINATION – JULY, 2013  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

---

- 64. Write briefly on the structure and antigenic nature of Influenza viruses with a diagram. Explain the epidemiology of Influenza. Add a note on the laboratory diagnosis of the virus. 3+4+3=10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 65. Life cycle and newer laboratory diagnostic methods of disease caused by Echinococcus granulosus**
- 66. Non-microscopic diagnosis of intestinal amoebiasis.**
- 67. Serological markers in the diagnosis of Hepatitis B virus**
- 68. Laboratory diagnosis of Pneumocystis jiroveci (P. carinii)**
- 69. Dimorphic fungi**

**WRITE BRIEFLY ON:**

**5X2=10**

- 70. Penicilliosis**
- 71. Morphology of Taenia Saginata**
- 72. Tropical pulmonary eosinophilia**
- 10. Malignancies associated with Epstein Barr virus**
- 11. Larva currens**

**M.B.B.S. DEGREE EXAMINATION – JULY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(GENERAL PATHOLOGY & HAEMATOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

**Answer all questions**

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63. A 35 year old male was admitted with easy fatigability, anorexia, weakness, weight loss, night sweats and dragging sensation in the abdomen due to massive splenomegaly. His total WBC count was 2,00,000 cells / mm<sup>3</sup>.
- a) What is the provisional diagnosis?
  - b) Describe the blood and bone marrow picture.
  - c) Describe the chromosomal abnormality of the disease
  - d) Mention various phases of the disease. 1+5+2+2=10

**WRITE SHORT NOTES ON:**

5x4=20

64. Free radicals
65. Phagocytosis
66. Klinefelter's syndrome
67. Packed cell volume (PCV)
68. Healing by second intention and complications of wound healing

**WRITE BRIEFLY ON:**

5x2=10

69. Characteristics of malignant cell
70. Fate of thrombus
71. Lipofuscin
10. Tuberculoid Leprosy – Microscopic picture
11. Sago spleen

- - -



**M.B.B.S. DEGREE EXAMINATION – JULY, 2013**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

Time : 2 Hours

Max. Marks: 40

Answer all questions

**55. A 40 year old female has 16 weeks amenorrhoea and on examination her uterus size was larger and corresponds to 21 weeks size gestation. She complains bleeding and passing grape like vesicles per vaginum. Her blood and urine HCG levels are elevated and higher than normal pregnancy. 1+3+5+1=10**

- a) What is the provisional diagnosis?
- b) Mention the two types of this benign non-invasive lesion and discuss their different pathogenesis
- c) Describe the gross and microscopic picture
- d) Mention the complications

**WRITE SHORT NOTES ON:**

5x4=20

- 56. Lobar Pneumonia
- 57. Pleomorphic adenoma
- 58. Wilm's tumor
- 59. Giant cell tumor - Bone
- 60. Hashimoto's Thyroiditis

**WRITE BRIEFLY ON:**

5x2=10

- 61. Hodgkin Lymphoma – WHO classification
- 62. Four (4) complications of chronic gastric ulcer
- 63. Types of aneurysms
- 10. Microscopic picture in seminoma
- 11. CSF findings in pyogenic meningitis

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**M.B.B.S. DEGREE EXAMINATION – JULY, 2013  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 55. Discuss the mechanism of action, clinical features and treatment of Organophosphorus insecticide poisoning.**

**3+4+3=10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 56. Cephalic Index**
- 57. Medico legal importance of Pregnancy**
- 58. Impulse**
- 59. Rule of Nines**
- 60. Differentiate entry and exit wounds of a bullet**

**WRITE BRIEFLY ON:**

**5x2=10**

- 61. Types of Abrasions**
- 62. Informed consent**
- 63. Atavism**
- 10. Lucid Interval**
- 11. Café Coronary**

- - -

505-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2014  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 28. Classify drugs used in Hypertension. Describe the mechanism of action and adverse effects of angiotensin converting enzyme inhibitors.**

**3+4+3=10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 29. Drug therapy of status epilepticus**
- 30. Treatment of organophosphorus compound poisoning.**
- 31. Microsomal enzyme induction.**
- 32. Advantages of selective serotonin reuptake inhibitors.(SSRIs)**
- 33. Essential drug concept.**

**WRITE BRIEFLY ON:**

**5X2=10**

- 34. Rationale for use of digoxin in atrial fibrillation**
- 35. Four therapeutic uses of adrenaline**
- 36. Name four nasal decongestants**
- 10. Two uses and two complications of Mannitol**
- 11. Two uses and two adverse effects of loop diuretics.**

- - -

505-B

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2014  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-II**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 73. Classify antiamebic drugs. Explain Pharmacological action, uses and adverse effects of metronidazole.**

**2+3+3+2=10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 74. Selective estrogen receptor modulators (SERMs)**
- 75. Proton pump inhibitors (PPIs)**
- 76. Insulin resistance.**
- 77. Cotrimoxazole – uses and adverse effects**
- 78. Mechanism of action and therapeutic uses of acyclovir.**

**WRITE BRIEFLY ON:**

**5x2=10**

- 79. Rationale of using pyridoxine with INH.**
- 80. Four uses of Chloroquine.**
- 81. Mention four characteristic adverse effects of aminoglycosides.**
- 10. Mention uses of fibrinolytics.**
- 11. Name two mast cell stabilizers and its two uses.**

- - -

506-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2014**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(BACTERIOLOGY & IMMUNOLOGY)**  
**PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 73. Classify hypersensitivity reactions with examples. Describe type 1 hypersensitivity. 5+5= 10**

**WRITE SHORT NOTES ON: 5x4=20**

- 74. Auto immunity**  
**75. Requirements of ideal media**  
**76. Immunological tolerance**  
**77. C Reactive Protein**  
**78. Bacterial filters**

**WRITE BRIEFLY ON: 5x2=10**

- 79. Live bacterial vaccines**  
**80. Define monoclonal antibodies**  
**81. X and V factors**  
**10. String test**  
**11. Phagocytosis**

- - -

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2014  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 73. Describe the morphology, life cycle and pathogenesis of Leishmania donovani. Discuss on the laboratory diagnosis of kala azar. (2+2+3+3=10)**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 74. Cultivation of viruses**
- 75. Morphology and antigenic variation seen in influenza virus.**
- 76. Dermatophytes**
- 77. Interferons**
- 78. Histoplasma capsulatum**

**WRITE BRIEFLY ON:**

**5x2=10**

- 79. Merits and demerits of two commonly used anti polio vaccines**
- 80. Slide culture technique for fungi**
- 81. Microfilaria**
- 10. Parasites visible to naked eye in stool**
- 11. Morphology of Rabies Virus**

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2014**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(GENERAL PATHOLOGY & HAEMATOLOGY)**  
**PAPER-I**

Time : 2 Hours

Max. Marks: 40

**Answer all questions**

---

1. A male child aged 8 years presented with fever, fatigue, generalized lymphadenopathy, bone pain, petechial hemorrhages over the skin, pallor, enlarged testes and features of meningism.
- a) What is the provisional diagnosis?
  - b) Describe blood and bone marrow picture and
  - c) Other investigations to confirm the diagnosis.
  - d) Discuss the prognosis of the same. (1+4+3+2=10)

**WRITE SHORT NOTES ON:**

5x4=20

- 2) Etiology and pathogenesis of fat embolism
- 3) Mention Arachidonic acid metabolites and their role in inflammation.
- 4) Tabulate the differentiating features of Necrosis and Apoptosis
- 5) Describe the chemical nature of Amyloid
- 6) Describe the steps / events involved in mechanism of tumor **INVASION** and **METASTASIS**

**WRITE BRIEFLY ON:**

5x2=10

- 7) Name any four (4) pathological changes in Vitamin A deficiency
- 8) Name any four (4) growth factors involved in regeneration and wound healing
- 9) Name one (1) infectious disease and three (3) tumors caused by Epstein-Barr virus
- 10) Name three (3) X-linked recessive and one (1) X-linked dominant disorders
- 11) Name two (2) special stains for reticulocytes and two (2) causes of Reticulocytosis.

- - -

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2014**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 1) A male aged 60 years who is a chronic smoker presented with history of slowly increasing severe exertional dyspnoea and weight loss. He is barrel-chested and dyspneic with prolonged expiration, sits forward in a hunched-over position and breaths through pursed lips (1+4+4+1=10)
- a) What is the probable diagnosis?
  - b) Mention the major types (classification) with appropriate diagrams
  - c) Discuss the pathogenesis of the lesion
  - d) Mention two causes of death in most of these patients

**WRITE SHORT NOTES ON:**

**5x4=20**

- 2) Skeletal Ewing's sarcoma – common sites, X-ray appearance and microscopic picture.
- 3) Endometriosis – Definition, chief locations and histogenesis
- 4) Cardiac lesions in Acute Rheumatic fever (Acute RHD)
- 5) Name the types of Renal lesions in Diabetic Nephropathy and describe the histology of glomerular lesions
- 6) Morphology of Astrocytomas

**WRITE BRIEFLY ON:**

**5x2=10**

- 7) Paget's disease of Nipple – Gross and microscopic picture
- 8) Name three (3) pre-malignant (carcinoma-in-situ) lesions of Penis mention the common infective agent associated with these lesions
- 9) Morphology of Amoebic colitis
- 10) Microscopic picture of thyroid in Graves disease
- 11) Four major etiologic factors associated with Hepatocellular Carcinoma

- - -



**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2014  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Answer all questions**

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- 1. Enumerate various types of violent asphyxial deaths. What are the post-mortem appearances of a typical case of suicidal hanging? (3+7=10)**

**WRITE SHORT NOTES ON: 5x4=20**

- 2. Privileged communication**
- 3. Post-mortem hypostasis**
- 4. Plumbism**
- 5. Primary impact injuries**
- 6. Primary skin incisions for opening the body during autopsy.**

**WRITE BRIEFLY ON: 5x2=10**

- 7. Mc Ewan's sign**
- 8. Magnan's symptom**
- 9. Mc Naughton rule**
- 10. Maceration of foetus**
- 11. Mention contraindications of gastric lavage**

- - -

M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I

Time : 2 Hours  
: 40

Max. Marks

Answer all questions

---

- 1) Classify Beta Blockers. Write the Pharmacological actions, Therapeutic uses and adverse effects of Beta blockers. 3+2+3+2=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Newer drug delivery systems.
- 3) Mention potassium sparing diuretics and write their therapeutic uses.
- 4) Therapeutic uses and adverse effects of Aspirin.
- 5) Explain the mechanism of action of Nitrates in angina Pectoris.
- 6) Advantages and disadvantages of halothane as general anaesthetic.

WRITE BRIEFLY ON:

5X2=10

- 7) Drug Interaction.
- 8) Mention two uses and two adverse effects of Carbamazepine.
- 9) Treatment of Succinyl Choline Apnoea.
- 10) Classify Antiarrhythmic drugs and give one example under each class.
- 11) First pass metabolism.

505-B

M.B.B.S. DEGREE EXAMINATION – JULY/AUGUST, 2014  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-II

Time : 2 Hours  
: 40

Max. Marks

Answer all questions

---

- 1) Enumerate the Amino glycoside antibiotics. Mention their general pharmacological properties. Write the therapeutic uses of aminoglycosides and their side effects. 3+2+3+2=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Mechanism of action of oral contraceptives.
- 3) Lovastatin.
- 4) Omeprazole.
- 5) Mucolytics.
- 6) Mechanism of action and adverse effects of Metformin.

WRITE BRIEFLY ON:

5X2=10

- 7) Advantages of the Radio Active Iodine.
- 8) Name two chelating agents and mention one indication for each.
- 9) Uses of Rifampicin.
- 10) Write briefly on the mechanism of action and one use of methylethergometrine.
- 11) Treatment of Heparin overdosage.

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M.B.B.S. DEGREE EXAMINATION – JULY / AUGUST, 2014  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(BACTERIOLOGY & IMMUNOLOGY)  
PAPER-I

Time : 2 Hours  
40

Max. Marks:

Note: Answer all questions

Give diagrammatic representation wherever possible

---

- 1) Classify Salmonella. Describe how you would investigate a suspected enteric fever. 3+7=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Principle of autoclave.
- 3) Draw a diagram of Bacterial cell and label the parts.
- 4) Typhus fevers.
- 5) Alternate pathway of complement.
- 6) Pneumococci.

WRITE BRIEFLY ON:

5X2=10

- 7) Helicobacter pylori.
- 8) Antigen presenting cells.
- 9) Prevention of Tetanus.
- 10) Rheumatoid factor.
- 11) Collection of Urine for Bacterial Culture.

M.B.B.S. DEGREE EXAMINATION – JULY / AUGUST, 2014  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II

Time : 2 Hours  
40

Max. Marks:

Note: Answer all questions.

Give diagrammatic representation wherever possible.

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- 1) Describe the cycle of *Trypanosoma brucei gambiense*. Write 5+2+3=10  
briefly the clinical features and laboratory diagnosis of this  
infection.

WRITE SHORT NOTES ON:

5X4=20

- 2) Mode of infection of *Ancylostoma* and its laboratory  
diagnosis.
- 3) Pathogenesis and prevention of Measles.
- 4) Hepatitis C virus.
- 5) Laboratory diagnosis of Chikungunya.
- 6) Cryptococci.

WRITE BRIEFLY ON:

5X2=10

- 7) Aspergillosis.
- 8) Parasites causing anemia.
- 9) HIV Viral load assay.
- 10) Draw diagram of *E. histolytica* trophozoite.
- 11) Rhinosporidiosis.

- - -

M.B.B.S. DEGREE EXAMINATION – JULY / AUGUST, 2014  
 SECOND M.B.B.S. EXAMINATION  
 PATHOLOGY  
 (GENERAL PATHOLOGY & HAEMATOLOGY)  
 PAPER-I

Time : 2 Hours  
 40

Max. Marks:

Note: Answer all questions

Draw neat diagram wherever necessary

---

- 1) A 60 year old patient long history of rheumatoid arthritis presented with enlarged tongue and a history of diarrhoea. Urine shows positive heat test for proteins and ECG shows conduction disturbances. 2+2+4+2=10
- a) What is the possible diagnosis and what will be ideal site for biopsy to confirm it?
  - b) Name the lab technique for definite diagnosis.
  - c) Write four (4) types of this abnormal substance and their associated diseases.
  - d) Give the structural details of the substance.

WRITE SHORT NOTES ON:

5X4=20

- 2) Tabulate the differences between Leukemoid reaction and Chronic myeloid leukemia.
- 3) Classification of Hemolytic anemia and Lab diagnosis of  $\beta$  Thalassemia major.
- 4) Bone changes in rickets.
- 5) Examples of Radiation injury and morphological changes induced by them.
- 6) Pathogenesis of Endotoxic shock.

WRITE BRIEFLY ON:

5X2=10

- 7) Name four (4) causes of granuloma formation.
- 8) Name four (4) clinical features of Turner Syndrome.
- 9) Give four (4) examples of Type I Hypersensitivity reaction.
- 10) Draw a diagram of Reed Sternberg cell.
- 11) Describe four (4) modes of tumor spread with examples.

M.B.B.S. DEGREE EXAMINATION – JULY / AUGUST, 2014  
 SECOND M.B.B.S. EXAMINATION  
 PATHOLOGY  
 (SYSTEMIC PATHOLOGY)  
 PAPER-II

Time : 2 Hours  
 40

Max. Marks:

Note : Answer all questions

Draw neat diagram wherever necessary

---

- 1) A 54-year old woman noted a 6-month history of progressive vaginal discharge sometimes blood tinged. She was 2 years post menopausal and earlier took oral contraceptives for 10 years. She complains of right back pain and right leg swelling. The per-speculum examination showed an unhealthy cervix with ulceration. 1+6+2+1=10
- a) What is the most likely diagnosis?
  - b) Write two (2) high risk, two (2) low risk microorganism and two (2) social factors associated with this lesion.
  - c) Name the screening tests performed for it.
  - d) Describe the preventive measures.

WRITE SHORT NOTES ON:

5X4=20

- 2) Morphology of Meningioma.
- 3) What are the types of pneumonia; write about the morphology of Lobar pneumonia and its complications.
- 4) Etiopathogenesis and morphology of Carcinoma Prostate.
- 5) Etiopathogenesis and morphology of Alcoholic liver disease.
- 6) What are the causes of peptic ulcer, write its morphology and complications?

WRITE BRIEFLY ON:

5X2=10

- 7) Morphology of Post streptococcal Glomerulonephritis.
- 8) Types of gall stones and their complications.
- 9) Burkitt's Lymphoma.
- 10) Types and morphology of Cardiac vegetations.

11) Giant cell tumor – common sites and its radiological and microscopic picture.

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M.B.B.S. DEGREE EXAMINATION – JULY / AUGUST, 2014  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE

Time : 2 Hours  
40

Max. Marks:

Answer all questions

Give diagrammatic representation wherever possible

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- 1) Discuss the different types of Skull Fractures. Add a note on Coup and Contra Coup Injuries. 4+3+3=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Viability of a foetus.
- 3) Treatment of Snake Bite.
- 4) Hallucinations.
- 5) Causes of Impotence in a Male.
- 6) Anti dotes.

WRITE BRIEFLY ON:

5X2=10

- 7) Types of Hymen.
- 8) Types of Hyoid Bone Fractures.
- 9) Types of Consent in Medical Practice.
- 10) Types of Death.
- 11) Types of Finger Prints.

505-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008

**M.B.B.S. DEGREE EXAMINATION – JULY, 2015**

**SECOND M.B.B.S. EXAMINATION**

**PHARMACOLOGY**

**PAPER-I**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

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- 37. Define bio-availability. Discuss the various factors which affect bio-availability of an administered drug.**

**2+8=10**

**WRITE SHORT NOTES ON:**

**5X4=20**

- 38. Drugs used in Glaucoma**
- 39. Properties of an ideal anesthetic.**
- 40. What do you mean by on-off phenomenon during Levodopa therapy in Parkinsonism? Add a note on drug induced Parkinsonism.**
- 41. Verapamil**
- 42. Indications of Propranolol with rationale**

**WRITE BRIEFLY ON:**

**5X2=10**

- 43. What do you mean by Iatrogenic disease? Give an example.**
- 44. Name four drugs used in hypertensive emergency.**
- 45. Morphine is contraindicated in head injury. Justify.**
- 10. Therapy of Myasthenic Crisis**
- 11. Mention two therapeutic uses and two adverse effects of Furosemide.**

- - -

505-B

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – JULY, 2015  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

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- 1) Classify Glucocorticoids with example. Mention the pharmacological actions, adverse effects and non endocrine uses of any one. 2+3+3+2=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Methotrexate
- 3) Drugs used for resistant falciparum malaria
- 4) Metronidazole – spectrum of action and uses.
- 5) H<sub>2</sub> blockers
- 6) Mechanism of action of INH and adverse effects

WRITE BRIEFLY ON:

5X2=10

- 7) Name four drugs used in HIV infection
- 8) Name a Heparin antagonist. Mention its use
- 9) Name two parenteral iron preparations and their adverse effects
- 10) Why Clomiphene is used in anovulatory infertility?
- 11) Mention two bronchodilators with one adverse effect of each

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**506-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008

**M.B.B.S. DEGREE EXAMINATION – JULY, 2015**

**SECOND M.B.B.S. EXAMINATION**

**MICROBIOLOGY**

**(BACTERIOLOGY & IMMUNOLOGY)**

**PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Note : Answer all questions**

**Draw diagrammatic representation wherever necessary**

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- 1. List the virulence factors of Salmonella Typhi. Describe the pathogenesis of typhoid fever. Add a note on the laboratory diagnosis of typhoid. 2+3+5=10**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 2. ELISA (Enzyme Linked Immunosorbent Assay)**
- 3. Diseases associated with deficiency of complement**
- 4. Type IV hypersensitivity reaction**
- 5. Bacterial Flagellum**
- 6. Laboratory diagnosis of pneumococcal meningitis**

**WRITE BRIEFLY ON:**

**5x2=10**

- 7. Brill Zinsser Disease**
- 8. Enriched media**
- 9. Morphology of Neisseria Gonorrhoeae (Gonococcus) with diagram**
- 10. Natural Killer Cells**
- 11. Phenotypic variation of bacteria**

- - -

506-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2015

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give diagrammatic representation wherever is necessary

---

- 1) Describe morphology and life cycle of *Entamoeba histolytica*. 3+4+3=10  
Give laboratory diagnosis of dysentery due to *Entamoeba histolytica*.

**WRITE SHORT NOTES ON:**

5X4=20

- 2) Clinical features and laboratory diagnosis of *Cryptosporidium* infection  
3) Morphology and life cycle of *Taenia Solium*  
4) Write briefly on Herpes simplex virus type I  
5) Tissue culture techniques in virology  
6) Zygomycosis

**WRITE BRIEFLY ON:**

5X2=10

- 7) Enumerate viruses causing encephalitis  
8) Differences of fungi from bacteria  
9) Characteristics of slow virus infections  
10) Dimorphic fungi  
11) Name four oncogenic viruses

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507-A

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – JULY, 2015  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(GENERAL PATHOLOGY & HAEMATOLOGY)  
PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

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- 1) A 48 year-old male presented with pallor and easy fatigability. 2+3+5=10  
He complains of a sore tongue and tingling in hands and feet.  
His haemoglobin level was 9 gms/dL. He gives history of  
undergoing partial gastrectomy 3 years ago for gastric ulcer.
- a) What is your diagnosis?
  - b) Describe the pathogenesis of this disease
  - c) Describe the peripheral blood picture and bone marrow appearance in this patient

WRITE SHORT NOTES ON:

5X4=20

- 2) Air embolism
- 3) Klinefelter syndrome
- 4) Tumour markers
- 5) Pathogenesis of type I hypersensitivity reaction
- 6) Phagocytosis

WRITE BRIEFLY ON:

5X2=10

- 7) Wound healing by first intention
- 8) Define apoptosis and mention any two morphological features
- 9) Name four inherited haemolytic anaemias
- 10) Name any four myeloproliferative disorders
- 11) Four skeletal abnormalities in rickets

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DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008  
 M.B.B.S. DEGREE EXAMINATION – JULY, 2015  
 SECOND M.B.B.S. EXAMINATION  
 PATHOLOGY  
 (SYSTEMIC PATHOLOGY)  
 PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagram wherever necessary

- 1) A 45 year old lady presented with a painless swelling in the left breast for 3 months duration. On examination the swelling was firm, fixed to the overlying skin. Left axillary lymph nodes were enlarged. Fine needle aspiration of the swelling showed loosely cohesive cells with pleomorphic hyperchromatic nuclei and prominent nucleoli. 1+6+2+1=10
- a) What is your diagnosis
  - b) Describe the etiopathogenesis of this condition
  - c) How will you classify this condition?
  - d) What are prognostic factors for this condition?

WRITE SHORT NOTES ON:

5X4=20

- 2) Atherosclerotic aneurysm
- 3) Morphology of pleomorphic adenoma of salivary gland
- 4) Meningioma
- 5) Morphology of Lobar Pneumonia and complications
- 6) Benign cystic teratoma of the ovary

WRITE BRIEFLY ON:

5X2=10

- 7) Microscopic appearance of peptic ulcer
- 8) Name four malignant tumours of the thyroid
- 9) Gross appearance of osteogenic sarcoma
- 10) Four differences between Crohn's disease and ulcerative colitis
- 11) Four causes for cirrhosis of liver

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DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2015

SECOND M.B.B.S. EXAMINATION

**FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give diagrammatic representations wherever necessary.

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- 1) Define Forensic Thanatology. Mention the two stages of death 2+4+4=10  
and discuss early changes after death.

**WRITE SHORT NOTES ON:**

5X4=20

- 2) Factors modify the action of poisons.
- 3) Legal problems of artificial insemination
- 4) Manual Strangulation
- 5) Functions of Indian Medical Council
- 6) Whiplash injury

**WRITE BRIEFLY ON:**

5X2=10

- 7) B.A.L
- 8) Treatment of chronic opium poisoning
- 9) Psychiatric symptoms of Cannabis Indica intoxication
- 10) Reasons for Negative Autopsy
- 11) Post mortem appearances in Carbon monoxide poisoning

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M.B.B.S. DEGREE EXAMINATION – JANUARY, 2015  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 1) Classify Anticholinergics. Write the pharmacological action, therapeutic uses and adverse effects of Atropine Substitutes. 2+3+3+2=10

**WRITE SHORT NOTES ON:**

5X4=20

- 2) Therapeutic uses and adverse effects of Furosemide
- 3) Sublingual Route of Administration
- 4) Mechanism of action of Sumatriptan and its side effects
- 5) Amiodarone
- 6) Pre-anaesthetic Medications

**WRITE BRIEFLY ON:**

5X2=10

- 7) Prodrug
- 8) Dantrolene Sodium
- 9) Adverse effects of Clonazepam
- 10) Mention any two adverse effects of ACE Inhibitors
- 11) Mention any two examples of Teratogenic Drugs and their effects

505-B

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2015  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-II**

**Time : 2 Hours**

**Max. Marks : 40**

**Answer all questions**

---

- 82. Classify  $\beta$  Lactam antibiotics. Explain the mechanism of action, therapeutic uses and adverse effects of Benzyl Penicillin.  
2+3+3+2=10**

**WRITE SHORT NOTES ON: 5x4=20**

- 83. Rifampicin – Mechanism of action and therapeutic uses**
- 84. Albendazole**
- 85. Glucocorticoids – Therapeutic uses and adverse effects**
- 86. Tocolytic drugs**
- 87. Mechanism of action and adverse effects of Heparin**

**WRITE BRIEFLY ON: 5x2=10**

- 88. Name four antiplatelet drugs.**
- 89. Treatment of H. Pylori infection.**
- 90. Name four anticancer antibiotics**
- 10. Mechanism of action of diethylcarbamazine**
- 11. Mention two uses and two adverse effects of Metoclopramide**

- - -

506-A

M.B.B.S. DEGREE EXAMINATION – JANUARY, 2015  
SECOND M.B.B.S. EXAMINATION  
**MICROBIOLOGY**  
(BACTERIOLOGY & IMMUNOLOGY)  
PAPER-I

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 1) Describe cultural characters of *Mycobacterium tuberculosis*. 3+4+3=10  
Give steps for laboratory diagnosis of a case of pulmonary tuberculosis. Describe B.C.G. Vaccine in detail.

**WRITE SHORT NOTES ON:**

5X4=20

- 2) Urinary tract infection
- 3) Gas gangrene
- 4) IgE
- 5) Active Immunity
- 6) Modes of transmission of infection

**WRITE BRIEFLY ON:**

5X2=10

- 7) Selective media
- 8) Mention two toxins and two enzymes produced by *Streptococcus pyogenes*
- 9) Serological Tests for Syphilis
- 10) Components of Complement
- 11) Mention four requirements of ideal chemical disinfectant

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**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2015**  
**SECOND M.B.B.S. EXAMINATION**  
**MICROBIOLOGY**  
**(VIROLOGY, MYCOLOGY & PARASITOLOGY)**  
**PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Note : Answer all questions**

**Draw diagrammatic representation wherever necessary**

---

- 82. Name the Plasmodium species causing malaria in humans. Write briefly about the pathogenesis and manifestations of malaria caused by Plasmodium falciparum. Add a note on drug resistance in malaria. (2+6+2=10)**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 83. Pathogenesis of Dengue Hemorrhagic fever**
- 84. Antigenic shift and antigenic drift**
- 85. Candidiasis**
- 86. Pathogenesis and laboratory diagnosis of lymphatic filariasis**
- 87. Antemortem diagnosis of rabies**

**WRITE BRIEFLY ON:**

**5x2=10**

- 88. Endemic hemoptysis**
- 89. Larva migrans**
- 90. Harada mori technique**
- 10. Structure of HIV**
- 11. Classification of dermatophytes**

- - -

507-A

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2015  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(GENERAL PATHOLOGY & HAEMATOLOGY)  
PAPER-I**

**Time : 2 Hours**

**Max. Marks: 40**

**Note : Answer all questions**

**Draw diagrammatic representation wherever necessary**

---

**2. A 55 year old lady was brought to the emergency room unconscious. Her blood pressure was very low, pulse was weak and rapid. Her skin was warm and flushed. Her blood culture revealed growth of Gram positive bacteria.**

**e) What is the possible diagnosis?**

**f) Describe the pathogenesis of this condition.**

**g) Describe the stages of this disorder (2+5+3=10)**

**WRITE SHORT NOTES ON:**

**5x4=20**

**10) Mechanisms of apoptosis**

**11) Type IV hypersensitivity reaction**

**12) FAB Classification of Acute Myeloblastic Leukaemia (AML)**

**13) Laboratory diagnosis of iron deficiency anaemia**

**14) Von Willebrand disease**

**WRITE BRIEFLY ON:**

**5x2=10**

**15) Ghon complex**

**16) Name four malignant tumors causing paraneoplastic syndromes**

**17) Four alcohol induced diseases**

**10) Fibrinous inflammation**

**11) Four examples of hyperplasia.**

- - -

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2015**  
**SECOND M.B.B.S. EXAMINATION**  
**PATHOLOGY**  
**(SYSTEMIC PATHOLOGY)**  
**PAPER-II**

**Time : 2 Hours**

**Max. Marks: 40**

**Note : Answer all questions**

**Draw diagrammatic representation wherever necessary**

---

**e) A 55 year old lady present with breathlessness and cough for the past 2 weeks. She gives history of loss of weight and tiredness for past 6 months. X-ray chest revealed a massive pleural effusion on the left side. CT scan showed a nodular mass which is peripherally located in the left lung. CT guided biopsy of the mass showed, large cells with pleomorphic nuclei and prominent nucleoli, arranged in a glandular pattern.**

- a) What is your diagnosis? (1+5+4=10)**  
**b) Mention the histological types (sub-classification) of this lesion with illustrations**  
**f) Describe its etiopathogenesis.**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 2) Valvular lesions in rheumatic heart disease**
- 3) Etiopathogenesis of carcinoma stomach**
- 4) Etiopathogenesis of hepatocellular Carcinoma**
- 5) Etiopathogenesis of Chronic Pyelonephritis**
- 6) Morphology of malignant melanoma**

**WRITE BRIEFLY ON:**

**5x2=10**

- 7) Morphology of uterine leiomyoma**
- 8) Name four brain tumors**
- 9) Three causes of primary hyperparathyroidism and one cause of secondary hyperparathyroidism**
- 10) Microscopic appearance of giant cell tumour of bone**
- 11) Classification of germ cell tumours of testis**

- - -

**M.B.B.S. DEGREE EXAMINATION – JANUARY, 2015  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE**

**Time : 2 Hours**

**Max. Marks: 40**

**Note : Answer all questions**

**Draw diagrammatic representation wherever necessary**

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- 10. Classify mechanical injuries. Describe features of a chop wound. Distinguish between chop wound and lacerated wound.**  
**(4+3+3=10)**

**WRITE SHORT NOTES ON:**

**5x4=20**

- 11. Adipocere formation.**  
**12. Signs and symptoms and treatment of Datura poisoning**  
**13. Comparative techniques used for identification**  
**14. Doctrine of Informed Consent**  
**15. Post mortem findings in a case of ligature strangulation**

**WRITE BRIEFLY ON:**

**5x2=10**

- 16. Universal antidote**  
**17. Contraindications for gastric lavage**  
**18. Locard's Principle of Exchange**  
**10. Civil responsibilities of mentally ill person**  
**11. Privileged communication.**

- - -

505-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2016  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-I

Time : 2 Hours  
: 40

Max. Marks

Note: Answer all questions

Draw diagrammatic representation wherever possible

---

- 12) Classify Benzodiazepines. Explain the Pharmacological actions of Benzodiazepines. Mention their advantages over Barbiturates as sedative-hypnotics. 2+4+4=10

WRITE SHORT NOTES ON:

5X4=20

- 13) Pharmacogenetics
- 14) Treatment of organo phosphorus compound poisoning
- 15) Role of Disulfiram in the management of chronic alcoholism
- 16) Mechanism of action of Amiodarone
- 17) Therapeutic uses of Adrenaline

WRITE BRIEFLY ON:

5X2=10

- 18) Define Tachyphylaxis
- 19) Routes of administration of local anaesthetics
- 20) Treatment of Digoxin Toxicity
- 21) Name two high ceiling diuretics
- 22) Pro drug

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505-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2016  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours  
: 40

Max. Marks

Note: Answer all questions

Draw diagrammatic representation wherever possible.

---

- 12) Classify Glucocorticoids. Write in brief their pharmacological actions and therapeutic uses. 3+4+3=10

WRITE SHORT NOTES ON:

5x4=20

- 13) Newer Insulin preparations and their advantages.  
14) Non-systemic antacids  
15) Antitussives  
16) Mechanism of action and adverse effects of Isoniazid  
17) Third generation cephalosporins

WRITE BRIEFLY ON:

5X2=10

- 18) What are tocolytic agents? Give two examples  
19) Warfarin sodium – Mechanism of action and its Antagonist.  
20) Mention one antidote for Iron poisoning and write its mechanism of action.  
21) Four uses of chloroquine  
22) Mast cell stabilizers

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506-A

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2016

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

- 1) Define Diphtheria. Discuss the morphology, laboratory diagnosis and prophylaxis of *C. diphtheriae*. 2+3+3+2=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Hot Air Oven
- 3) Blood Agar
- 4) Ziehl Neelsen Staining
- 5) Type I hypersensitivity
- 6) Innate Immunity

WRITE BRIEFLY ON:

5X2=10

- 7) Prophylaxis of Tetanus
- 8) Transduction
- 9) Exotoxins
- 10) Widal Test
- 11) MMR Vaccine

- - -

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – JULY, 2016  
SECOND M.B.B.S. EXAMINATION  
**MICROBIOLOGY**  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II

Time : 2 Hours  
40

Max. Marks:

Note: Answer all questions.

Give diagrammatic representation wherever possible.

---

- 1) Classify human fungus infections (Mycoses). Write a detailed note on various types of superficial mycoses. 3+7=10

WRITE SHORT NOTES ON:

5x4=20

- 2) Oncogenic DNA viruses
- 3) Babesiosis
- 4) Opportunistic fungal infections
- 5) Microfilaria
- 6) Hydatid Cyst.

WRITE BRIEFLY ON:

5x2=10

- 7) Slow Viruses
- 8) Mycotic Poisoning
- 9) Hepatitis C Virus
- 10) Name four parasitic infections in immuno-compromised patients
- 11) Interferons

507-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2016  
SECOND M.B.B.S. EXAMINATION  
**PATHOLOGY**  
(GENERAL PATHOLOGY & HAEMATOLOGY)  
PAPER-I

Time : 2 Hours  
40

Max. Marks:

Note: Answer all questions  
Draw neat diagram wherever necessary

---

- 12) A 20 year old male presented with swelling of both knees and pain for the past one week. He gives history of similar episodes earlier. He also gives history of excessive bleeding after minor injuries. His maternal uncle has similar complaints and has been treated by repeated blood transfusions following excessive bleeding episodes. 2+4+3+1=10
- a) What are the possible differential diagnoses?
  - b) What are the laboratory investigations required for the diagnosis?
  - c) What is the etiopathogenesis of these disorders?
  - d) How will you make the final specific diagnosis?

WRITE SHORT NOTES ON:

5X4=20

- 13) Differences between benign and malignant tumors.
- 14) Bone marrow picture of megaloblastic anemia
- 15) Systemic thromboembolism
- 16) Leukemoid reaction
- 17) Morphologic changes in Kwashiorkor

WRITE BRIEFLY ON:

5X2=10

- 18) Name four types of necrosis with one example each
- 19) Name four clinical features of trisomy 21
- 20) Name four inherited cancer syndromes
- 21) Name four subtypes of Hodgkin disease
- 22) Give four examples of type II hypersensitivity

507-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2016  
SECOND M.B.B.S. EXAMINATION  
**PATHOLOGY**  
(SYSTEMIC PATHOLOGY)  
PAPER-II

Time : 2 Hours  
40

Max. Marks:

Note : Answer all questions

Draw neat diagram wherever necessary

---

12) A 20 year old female presented with a painless slowly growing freely mobile solitary lump in the lower part of her left breast. On examination, the nipple is normal. The lump is not fixed to the overlying skin. No axillary lymph nodes are palpable. 2+4+4=10

- a) What is the provisional diagnosis?
- b) Discuss various investigations to confirm your final diagnosis
- c) Describe the gross and microscopic picture of the lesion.

WRITE SHORT NOTES ON:

5X4=20

- 13) Pathogenesis of bronchial asthma
- 14) Morphology of renal cell carcinoma
- 15) Etiology of carcinoma cervix
- 16) Morphology of hepatocellular carcinoma
- 17) CSF changes in meningitis

WRITE BRIEFLY ON:

5X2=10

- 18) Types of gall stones
- 19) Give the names of four malignant ovarian tumours
- 20) Complications of peptic ulcer
- 21) Microscopic appearance of papillary carcinoma of thyroid
- 22) Morphology of basal cell carcinoma

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2016  
SECOND M.B.B.S. EXAMINATION  
**FORENSIC MEDICINE**

Time : 2 Hours  
40

Max. Marks:

Note: Answer all questions

Give diagrammatic representation wherever possible

---

- 1) Define death. Describe postmortem changes that occur in a dead body in 12 hours after death. Write a note on negative autopsy  $2+6+2=10$

WRITE SHORT NOTES ON:

$5 \times 4 = 20$

- 2) Artificial insemination  
3) Suspended animation  
4) Contrecoup lesions  
5) Diatoms  
6) Signs and symptoms and treatment of Oxalic acid poisoning

WRITE BRIEFLY ON:

$5 \times 2 = 10$

- 7) Carboluria  
8) Voyeurism  
9) Witness and its types  
10) Somnambulism  
11) Four signs and symptoms of chronic lead poisoning

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DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JANUARY, 2016  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I

Time : 2 Hours  
: 40

Max. Marks

Answer all questions

---

- 23) Classify the drugs used in the treatment of hypertension. 3+3+2+2=10  
Write the Pharmacological actions, uses and adverse effects of ACE Inhibitors (Angiotensin Converting Enzyme Inhibitors).

WRITE SHORT NOTES ON:

5X4=20

- 24) Advantages and disadvantages of Intravenous route.  
25) SSRIs. (Selective Serotonin Reuptake Inhibitors)  
26) Pre anaesthetic medication.  
27) Thiazide diuretics.  
28) Drugs used in the management of Status Epileptics.

WRITE BRIEFLY ON:

5X2=10

- 29) Redistribution of Drugs.  
30) Levodopa is not useful in Drug induced Parkinsonism -  
Explain briefly.  
31) What is drug Antagonism? Give one example.  
32) Pyridostigmine.  
33) Mention two uses of Mannitol.

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DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JANUARY, 2016  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-II

Time : 2 Hours  
: 40

Max. Marks

Answer all questions

---

23) Classify Penicillins. Write the mechanism of action, 3+3+2+2=10  
therapeutic uses and adverse effects of Benzyl Penicillin.

WRITE SHORT NOTES ON:

5x4=20

24) Mechanism of action and adverse effects of sulfonylureas.

25) Plasma expanders.

26) Proton Pump Inhibitors (PPIs).

27) Theophylline.

28) Carbimazole.

WRITE BRIEFLY ON:

5X2=10

29) Name two Anabolic steroids.

30) Dimercaprol.

31) Mention two uterine stimulants with routes of  
administration.

32) Vinca alkaloids.

33) Montelukast.

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DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – JANUARY, 2016  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(BACTERIOLOGY & IMMUNOLOGY)  
PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

- 12) Classify the diseases caused by Staph aureus and describe their Lab diagnosis. 3+7=10

WRITE SHORT NOTES ON:

5X4=20

- 13) Laboratory diagnosis of TB meningitis  
14) Autoimmunity  
15) Bacterial filters  
16) Phagocytosis  
17) Classify Bacteriologic media with examples

WRITE BRIEFLY ON:

5X2=10

- 18) Draw a diagram of Ig G and label its parts  
19) Pathogenesis and lab diagnosis of Burkholderia Pseudomallei  
20) High level disinfectants  
21) Serological test for Rheumatic fever  
22) Transferable bacterial drug resistance

- - -

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – JANUARY, 2016  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II

Time : 2 Hours  
40

Max. Marks:

Note: Answer all questions.

Give diagrammatic representation wherever possible.

---

- 12) Describe the life cycle of *P. falciparum* in the Mosquito. 4+4+2=10  
Write briefly the laboratory diagnosis. What are the complications of this infection?

WRITE SHORT NOTES ON:

5x4=20

- 13) Laboratory diagnosis of Leishmaniasis
- 14) Structure and modes of transmission of Hepatitis B virus
- 15) Morphology of H1N1 and its laboratory diagnosis
- 16) Larva migrans
- 17) Clinical features and laboratory diagnosis of Pneumocystis

WRITE BRIEFLY ON:

5x2=10

- 18) Trichomoniasis
- 19) Compare HIV 1 and HIV 2
- 20) List two enveloped Viruses
- 21) Identification of Candida
- 22) Draw egg of *H.nana*

---

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JANUARY, 2016  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(GENERAL PATHOLOGY & HAEMATOLOGY)  
PAPER-I

Time : 2 Hours

Max. Marks:

40

Note: Answer all questions

Draw neat diagram wherever necessary

- 23) One year old child is admitted with increasing pallor since the age of 2 months. On examination there is pallor and hepatosplenomegaly. Hb – 7.2 gm %; TLC and DLC are within normal limits. Platelets are normal. 1+3+3+3=10
- e) What is the probable diagnosis?
  - f) How do you classify the disease group?
  - g) What is the blood picture in this disease?
  - h) Give the clinical picture of the disease.

WRITE SHORT NOTES ON:

5X4=20

- 24) Indications for FNAC and its pitfalls.
- 25) Cytochemistry in differentiation of acute leukemias.
- 26) Tabulate differences between benign and malignant tumours.
- 27) Enumerate the chemical carcinogens. Give pathogenesis of chemical carcinogenesis.
- 28) Give the clinical picture and microscopic picture of the lesion in lepromatous leprosy.

WRITE BRIEFLY ON:

5X2=10

- 29) List any four types of necrosis with one example each
- 30) What is the blood picture in Vit.B<sub>12</sub> deficiency anemia?
- 31) Enumerate four causes of disseminated intravascular coagulation ( DIC).
- 32) What are the special stains for fat?
- 33) Name four autosomal dominant diseases.

507-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JANUARY, 2016  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(SYSTEMIC PATHOLOGY)  
PAPER-II

Time : 2 Hours  
40

Max. Marks:

Note : Answer all questions

Draw neat diagram wherever necessary

---

- 23) A 68-year old man presented with left sided chest pain of one hour duration. Pain is radiating to the left arm. ECG demonstrated ST segment elevation with T wave inversion. 1+3+4+2=10
- What is the probable diagnosis?
  - Enumerate the tests you will carry out to diagnose.
  - What is the gross and microscopic picture of the lesion?
  - What are its complications?

WRITE SHORT NOTES ON:

5X4=20

- Gastric carcinoma – location, types and metastasis
- Asbestosis
- Kidney lesions in hypertension
- Microscopic types of breast cancer
- Chronic active hepatitis – etiology, microscopic picture and fate

WRITE BRIEFLY ON:

5X2=10

- Microscopic patterns of follicular adenoma thyroid
- What are the pathogenic factors of endometrial cancer?
- Classify gonadal stromal tumours of ovary and give the hormone secreted by each
- What are the four precancerous lesions of large intestine?

33) Give the gross and morphologic picture of proliferative glomerulonephritis

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508-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JANUARY, 2016  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE

Time : 2 Hours  
40

Max. Marks:

Answer all questions

Give diagrammatic representation wherever possible

---

12) Classify mechanical injuries. Describe various types of lacerations and their medico legal importance. 3+4+3=10

WRITE SHORT NOTES ON: 5x4=20

13) Adipocere

14) Sexual asphyxia

15) Signs of live birth

16) Signs and symptoms and treatment of organophosphorus poisoning

17) Signs and symptoms and treatment of lead chronic poisoning

WRITE BRIEFLY ON: 5x2=10

- 18) Demulcents
- 19) Illusion
- 20) Contributory negligence
- 21) Summons
- 22) Immediate signs of death

---

**Q.P.CODE:505-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – JULY, 2017  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 34) Write in brief factors modifying drug action. 10

WRITE SHORT NOTES ON: 5X4=20

- 35) Advantages and disadvantages of nitrous oxide as general anaesthetic
- 36) Mechanism of action and pattern of lipid lowering effect of important hypolipidemic drugs
- 37) Loop Diuretics
- 38) Uses and adverse effects of Digoxin
- 39) Therapeutic uses of Aspirin

WRITE BRIEFLY ON: 5X2=10

- 40) Mention two uses and two adverse effects of Sodium Valproate
- 41) What is drug synergism? Give two examples.
- 42) Role of Nitrates in Cyanide Poisoning.
- 43) Name an Opioid antagonist. Mention its two uses.
- 44) Name four complications of Spinal anaesthesia.

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**Q.P.CODE:505-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2017  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Give diagrammatic representation wherever necessary

---

- 34) Enumerate the anti-tubercular drugs. Explain the mechanism of action and adverse effects of any two commonly used drugs. Describe the short course chemotherapy of Tuberculosis. 2+4+4=10

WRITE SHORT NOTES ON:

5x4=20

- 35) Classify the drugs used in the treatment of Diabetes Mellitus.
- 36) Enumerate types of female oral contraceptive pills. Mention the adverse effects of combined pills.
- 37) Bacterial drug resistance - types, mechanism of development and prevention.
- 38) Beta-Lactamase inhibitors available for clinical use (used in therapy).
- 39) Therapeutic uses and contraindications of Radio Active Iodine.

WRITE BRIEFLY ON:

5X2=10

- 40) Mention two Uterine Stimulants and two therapeutic uses of them.
- 41) Mention four Inhalation Steroids used in Bronchial Asthma.
- 42) Mention two parenteral iron preparation and two therapeutic uses of them.
- 43) Mention four drugs used for treatment of Inflammatory Bowel Disease.
- 44) Mention two Antifibrinolytic Drugs and two uses of them.

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**Q.P.CODE:506-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2017

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

- 23) Define and classify Hyper Sensitivity. Describe in detail Anaphylaxis. 2+3+5=10

WRITE SHORT NOTES ON:

5X4=20

- 24) Autoclave
- 25) Lab Diagnosis of Pulmonary Tuberculosis
- 26) Acquired Immunity
- 27) Standard tests for Syphilis
- 28) Virulence and Pathogenicity of Streptococcus Pneumoniae

WRITE BRIEFLY ON:

5X2=10



- 29) Simple Media
- 30) Suppressor T-Cell (Treg Cells)
- 31) Morphology of Clostridium Tetani
- 32) Mention four bacteria causing diarrhoea
- 33) Scrub Typhus

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**Q.P.CODE:506-B**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2017

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Give diagrammatic representation wherever possible.

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23) Describe the life cycle of parasite causing bancroftian filariasis. 4+4+2=10

Write briefly the laboratory diagnosis. What are the complications of this infection?

WRITE SHORT NOTES ON:

5X4=20

24) Laboratory diagnosis of Amoebic liver abscess

25) Structure and modes of transmission of Human Immunodeficiency Virus.

26) Laboratory diagnosis of Arboviruses

27) Pernicious malaria

28) Cryptococcosis

WRITE BRIEFLY ON:

5X2=10

29) Intestinal protozoal cysts

30) Morphology of Balantidium Coli

31) Properties of Rhinoviruses

32) Morphological classification of Fungi with examples

33) Opportunistic Fungi

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**Q.P. CODE:507-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2017  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

---

- 34) A 52 year old beggar is admitted with skin patches and nodules on the face. Skin patches are hypoesthetic. Few toes on both feet are amputated partly. 3+3+2+2=10
- a) What is the possible diagnosis? How will you make the diagnosis?
- b) Classify the disease
- c) What special stains will you do on the biopsy to make the diagnosis?
- d) Discuss the mode of transmission of the disease

WRITE SHORT NOTES ON:

5X4=20

- 35) Tabulate the differences between Hemophilia A & von Willebrand disease
- 36) Classify chronic myeloproliferative disorders. Give blood picture and diagnostic tests in a case of chronic myeloid leukemia.
- 37) Tabulate the differences between lymphatic and vascular spread of tumors
- 38) Role of complement in inflammation
- 39) Pathogenesis of Septic Shock

WRITE BRIEFLY ON:

5X2=10

- 40) Mention four examples of antibody mediated type-II Hypersensitivity reaction.
- 41) Mention four Hemoglobinopathies seen in India
- 42) Mention four effects of Radiation
- 43) Classify hemolytic anemias
- 44) Mention four clinical features of acute lymphoblastic leukemia

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**Q.P. CODE:507-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – JULY, 2017

SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(SYSTEMIC PATHOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

---

- 34) A 59 year old man is admitted with history of chest pain of half hour duration. Pain was in the precordial area with radiation in the left arm pain was severe in nature and was accompanied by vomiting. ECG showed ST segment elevation with T wave inversion. 1+2+3+3=10
- a) What is the most likely diagnosis?
  - b) What biochemical investigations are useful in such a case?
  - c) What complications can occur?
  - d) What are the predisposing factors of this disease?

WRITE SHORT NOTES ON:

5X4=20

- 35) Give the gross and microscopic findings in a case of chronic pyelonephritis
- 36) Pathogenesis of Peptic Ulcer
- 37) Morphology of acute viral hepatitis and its complications
- 38) Classify pneumonia. What are the stages of lobar pneumonia?
- 39) Classify bone tumors. Give X-ray appearance and microscopic picture of giant cell tumor.

WRITE BRIEFLY ON:

5X2=10

- 40) Mention four complications of Bacterial Endocarditis
- 41) Classify Ovarian tumors
- 42) Staging of Hodgkin's disease
- 43) Hashimoto thyroiditis
- 44) Pathogenesis of Dissecting Aneurysms

**Q.P.CODE:508-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2017

SECOND M.B.B.S. EXAMINATION

**FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give Diagrammatic representation wherever necessary

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- 23) Classify abortion. What are the methods used for inducing criminal abortion? Enumerate various complications following criminal abortion. 2+5+3=10

WRITE SHORT NOTES ON:

5X4=20

- 24) Adipocere formation
- 25) Testamentary capacity
- 26) Types of skull fractures
- 27) Signs and symptoms and treatment of organophosphorus poisoning
- 28) Signs and symptoms and treatment of carbon monoxide poisoning

WRITE BRIEFLY ON:

5X2=10

- 29) Dichotomy
- 30) Signs and symptoms of Arsenic Chronic poisoning
- 31) Café coronary
- 32) Malingering
- 33) Hara-Kiri

505-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2017  
SECOND M.B.B.S. EXAMINATION  
PHARMACOLOGY  
PAPER-I

Time : 2 Hours

Max. Marks : 40

Answer all questions

- 
- 45) Define Biotransformation. Describe the different types of Biotransformation reactions with examples. 2+8=10

WRITE SHORT NOTES ON: 5X4=20

- 46) Mechanism of action and adverse effects of paracetamol  
47) Mention Potassium sparing diuretics and their therapeutic uses  
48) Mechanism of action and therapeutic uses of Lignocaine  
49) Therapeutic uses and adverse effect of pethidine  
50) Drug therapy of organophosphate compound poisoning

WRITE BRIEFLY ON: 5X2=10

- 51) Therapeutic uses of clonidine  
52) Classify antiarrhythmic drugs and give one example under each class  
53) Four therapeutic uses of Nitrates  
54) Mechanism of action and therapeutic uses of tamsulosin  
55) Two advantages and two disadvantages of Ketamine

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505-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2017

SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 1) Classify cephalosporins. Mention their Therapeutic uses and adverse effects. 3+4+3=10

**WRITE SHORT NOTES ON:**

5X4=20

- 2) Ondansetron
- 3) Mechanism of action and uses of Mifepristone
- 4) Mucolytics
- 5) Mechanism of action, adverse effects and uses of Zidovudine
- 6) Sitagliptin

**WRITE BRIEFLY ON:**

5X2=10

- 7) Disadvantages of Radio Active Iodine
- 8) Mention two drugs used for Chloroquine Resistant Malaria
- 9) Mention any two adverse effects of Isonicotinylhydrazine (INH)
- 10) Mention two drug interaction of Warfarin Sodium
- 11) Mention disadvantages of liquid paraffin as laxative

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506-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2017  
SECOND M.B.B.S. EXAMINATION  
**MICROBIOLOGY**  
(BACTERIOLOGY & IMMUNOLOGY)  
PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

34) Describe the pathogenesis and laboratory diagnosis of Cholera. 3+5+2=10

Add a note on its Epidemiology.

WRITE SHORT NOTES ON:

5x4=20

35) Role of T cells in immunity

36) General features of Antigen antibody reactions

37) Laboratory diagnosis of Brucellosis

38) Selective media

39) Laboratory diagnosis of enteric fever

WRITE BRIEFLY ON:

5x2=10

40) HLA typing

41) Expand MRSA and state three antibiotics not acting on them

42) Helicobacter Pylori

43) Bacterial filters

44) Prophylaxis of Tetanus

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506-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2017  
SECOND M.B.B.S. EXAMINATION  
MICROBIOLOGY  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II

Time : 2 Hours  
40

Max. Marks:

Note: Answer all questions.

Give diagrammatic representation wherever possible.

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- 34) Describe the morphology, pathogenesis and laboratory diagnosis of Human Immunodeficiency Virus. Add a note on Opportunistic Infections in AIDS. 2+3+3+2=10

WRITE SHORT NOTES ON:

5x4=20

- 35) Morphology and Pathogenicity of Entamoeba histolytica  
36) Life cycle and Pathogenicity of Ascaris lumbricoides  
37) Pathogenicity and laboratory diagnosis of Wuchereria bancrofti  
38) Arboviral Infections in India  
39) Candidiasis

WRITE BRIEFLY ON:

5x2=10

- 40) Define Dermatophytes with THREE examples  
41) Sporotrichosis – Causative agent, Pathogenesis and clinical features.  
42) Antigenic drift and shift  
43) Enumerate viruses causing gastroenteritis.  
44) Morphology of Leishmania donovani

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507-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2017  
SECOND M.B.B.S. EXAMINATION  
PATHOLOGY  
(GENERAL PATHOLOGY & HAEMATOLOGY)  
PAPER-I

Time : 2 Hours

Max. Marks:

40

Note: Answer all questions

Draw neat diagram wherever necessary

---

- 45) A 3 year old child is admitted with fever and petechial haemorrhages for 2 weeks. On examination child is pale, no liver/spleen enlargement. Cervical lymph nodes are enlarged. TLC – 50,000/cumm. Peripheral smear shows blast cells. 1+3+3+3=10
- a) What is the probable diagnosis?
  - b) What is the bone marrow picture in this disease?
  - c) Enumerate the various prognostic factors.
  - d) Tabulate the differences between lymphoblast and myeloblast

WRITE SHORT NOTES ON:

5X4=20

- 46) Role of prostaglandins in acute inflammation.
- 47) Tabulate differences between necrosis and degeneration.
- 48) Blood and bone marrow picture in Folic acid deficiency anemia.
- 49) Klinefelter Syndrome.
- 50) Investigations in a case of Hereditary Spherocytosis.

WRITE BRIEFLY ON:

5X2=10

- 51) Name four tumors caused by various viruses.
- 52) Give four important causes of granulomatous inflammation.
- 53) Four special stains for demonstration of Amyloid.

- 54) Fate of thrombus  
55) Enumerate four transfusion reactions.

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507-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2017  
SECOND M.B.B.S. EXAMINATION  
**PATHOLOGY**  
(SYSTEMIC PATHOLOGY)  
PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give Diagrammatic representation wherever necessary

---

- 1) An elderly male presented with history of bleeding per rectum, altered bowel habits, loss of appetite, loss of weight and crampy lower quadrant discomfort in the abdomen. Hematological evaluation revealed Iron deficiency anemia. What is your diagnosis? 1+5+4=10  
a) Discuss the etiopathogenesis of this disease.  
b) Describe the morphology of this lesion.

**WRITE SHORT NOTES ON:**

5X4=20

- 2) Morphology of liver in Alcoholic Cirrhosis.
- 3) Morphology of osteoclastoma.
- 4) Morphology and complications of atherosclerosis.
- 5) CSF findings in pyogenic meningitis.
- 6) Morphology of seminoma testis.

**WRITE BRIEFLY ON:**

5X2=10

- 7) List four causes of chronic glomerulonephritis.
- 8) Mention four complications of myocardial infarction.
- 9) Name any four causes of Carcinoma Lung.
- 10) Name four Malignant tumors of Thyroid.
- 11) Name four Malignant tumors of Salivary glands.

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508-A

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2017  
SECOND M.B.B.S. EXAMINATION  
FORENSIC MEDICINE

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give diagrammatic representation wherever possible

---

- 34) Define Professional Negligence. Enumerate differences between Criminal Negligence and Civil Negligence. Briefly describe the legal principle “Res Ipsa Loquitur”. 2+4+4=10

WRITE SHORT NOTES ON:

5x4=20

- 35) Mummification
- 36) Testamentary capacity of the Insane
- 37) Management of a case of Krait bite
- 38) Brainstem death
- 39) Post mortem findings in a case of wet drowning

WRITE BRIEFLY ON:

5x2=10

- 40) Signs and symptoms of Arsenic Chronic Poisoning

- 41) Tight contact firearm entry wound over the skull
- 42) Magnan's symptoms
- 43) Post mortem appearances in Carbon monoxide poisoning
- 44) Brush burn

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**Q.P.CODE:507-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2018  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw diagrammatic representation wherever necessary

---

- 1) A forty year old man presented with history of persistent cough and evening rise of temperature over a period of 4 months, with associated loss of appetite and reduction in weight. Examination revealed matted cervical lymph nodes. An X ray chest done showed a small radiopaque focus in the apex of the upper lobe of right lung. 1+4+3+2=10
  - a) What is your diagnosis?
  - b) Describe in detail the pathogenesis of this disease.
  - c) Describe the microscopic features associated with this lesion.
  - d) Enumerate the complications associated with this condition.

**WRITE SHORT NOTES ON:**

5X4=20

- 2) Mechanism of wound healing by second intention
- 3) Type II hypersensitivity reaction
- 4) Characteristics of Benign and Malignant neoplasms
- 5) Laboratory investigations in a case of Hereditary spherocytosis
- 6) Pathogenesis of Septic Shock

**WRITE BRIEFLY ON:**

5X2=10

- 7) List any four types of necrosis with one example for each
- 8) Mention four inflammatory actions of Arachidonic acid metabolites
- 9) List four special stains to demonstrate amyloid
- 10) List four examples for edema due to reduced plasma osmotic pressure
- 11) Laboratory investigations in a case of Idiopathic Thrombocytopenic Purpura (ITP)

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**Q.P.CODE:507-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2018  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(SYSTEMIC PATHOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagram wherever necessary

- 
- 45) A 65 year old man, a chronic smoker, presented with history of weight loss, low grade fever and difficulty in breathing. He gave history of hemoptysis for last month. X-ray chest showed enlarged Right tracheobronchial lymph nodes. Bronchoscopy revealed a fungating growth in the right bronchus. 1+3+2+4=10
- a) What is the probable diagnosis
  - b) Mention the major types (classification)
  - c) Give the spread of the tumour
  - d) What is paraneoplastic syndrome? Give features of paraneoplastic syndrome.

WRITE SHORT NOTES ON:

5X4=20

- 46) Helicobacter pylori and peptic ulcer
- 47) Morphology of Myocardial Infarction
- 48) Give causes of crescent formation. Give gross and microscopic picture of Rapidly progressive glomerulonephritis
- 49) Post necrotic cirrhosis liver
- 50) Give the microscopic picture, X-ray appearance and spread of osteogenic sarcoma

WRITE BRIEFLY ON:

5X2=10

- 51) Nodular Sclerosing type of Hodgkin disease
- 52) Enumerate pathogenic factors of Carcinoma cervix
- 53) CSF findings in Tuberculous Meningitis
- 54) Name four prognostic factors of breast cancer
- 55) What is the pathogenesis of Dissecting aneurysms?

**Q.P.CODE:506-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2018

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

- 45) List the virulence factors of Yersinia Pestis. Describe the pathogenesis of Bubonic Plague. Add a note on the laboratory diagnosis of Plague. 2+3+5=10

WRITE SHORT NOTES ON:

5X4=20

- 46) IFAT (Indirect Immunofluorescent Antibody Test)  
47) Classify Immunodeficiency diseases  
48) Type IV Hypersensitivity reaction  
49) Bacterial Endospore  
50) Laboratory diagnosis of Streptococcal (Group A) Sore Throat

WRITE BRIEFLY ON:

5X2=10

- 51) Endemic Typhus  
52) Selective Media  
53) Morphology of Neisseria Meningitis (Meningococcus) with diagram  
54) Immunoglobulin A  
55) Insertion Sequence

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## Q.P. CODE:506-B

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2018  
SECOND M.B.B.S. EXAMINATION

### **MICROBIOLOGY** (VIROLOGY, MYCOLOGY & PARASITOLOGY) PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Give diagrammatic representation wherever possible.

---

- 45) Describe the morphology and life cycle of Plasmodium vivax. Discuss laboratory diagnosis of malaria. What are the complications of malaria? 2+2+4+2=10

WRITE SHORT NOTES ON:

5x4=20

- 46) Giardiasis  
47) Hydatid disease  
48) Laboratory diagnosis of Hepatitis B  
49) Cryptococcus neoformans  
50) Cultivation of viruses

WRITE BRIEFLY ON:

5x2=10

- 51) Slide culture  
52) Draw and label influenza virus  
53) Bile stained helminthic ova  
54) Herpes zoster  
55) What are Dimorphic fungi? Give two examples.

**Q.P.CODE:505-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2018

SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 1) Classify  $\beta$  blockers. Write their Pharmacological action, therapeutic uses and adverse effects of  $\beta$  blockers. 3+2+3+2=10

WRITE SHORT NOTES ON:

5X4=20

- 2) Transdermal patch
- 3) Pharmacovigilance
- 4) Therapeutic uses of Prostaglandin Analogues
- 5) Potassium Channel Openers
- 6) Propofol

WRITE BRIEFLY ON:

5X2=10

- 7) Mention two examples of Cytochrome P450 induction
- 8) Mention four SSRI (Selective Serotonin Reuptake Inhibitors)
- 9) Tramadol
- 10) Articaine
- 11) Mannitol

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**Q.P.CODE:505-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2018  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Give diagrammatic representation wherever necessary

---

- 45) Mention  $\beta$  Lactam Antibiotics. Classify Cephalosporins. Write 2+3+3+2=10 about therapeutic uses and adverse effects of Cephalosporins.

WRITE SHORT NOTES ON:

5x4=20

- 46) Chelating Agents  
47) Anti H-Pylori therapy.  
48) Mucolytics  
49) Ivermectin  
50) Adverse effects of statins

WRITE BRIEFLY ON:

5X2=10

- 51) Ritodrine  
52) Rationale of combination of Estrogen and Progestin as oral contraceptives  
53) Terbinafine  
54) Mention any two drugs for Osteoporosis  
55) Newer Insulin preparations and their advantages

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**Q.P.CODE:508-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2018

SECOND M.B.B.S. EXAMINATION

**FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give Diagrammatic representation wherever necessary

---

- 45) Define and classify drowning. Describe Post Mortem findings in a case of death due to drowning in a swimming pool. 2+3+5=10

WRITE SHORT NOTES ON:

5X4=20

- 46) Viscera preservation in a case of poisoning
- 47) Entry and exit wound of a rifle bullet
- 48) Differentiate between civil and criminal negligence
- 49) Primary impact injuries
- 50) Informed consent

WRITE BRIEFLY ON:

5X2=10

- 51) Contraindications of gastric lavage
- 52) Kleptomania and Mutilomania
- 53) Magistrate's inquest
- 54) Chop wounds
- 55) Management of strychnine poisoning

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**Q.P.CODE:505-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – JULY, 2018  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 12) What is pharmacodynamics? Discuss the factors affecting the effects of Drugs. 10

WRITE SHORT NOTES ON: 5X4=20

- 13) Prazosin
- 14) Lignocaine
- 15) Pancuronium
- 16) Treatment of status epilepticus
- 17) Therapeutic uses of ACE Inhibitors

WRITE BRIEFLY ON: 5X2=10

- 18) Mention any two atropine substitutes
- 19) Mention two uses and adverse effects of Phenytoin Sodium
- 20) Mention four Antihypertensive Drugs
- 21) Mention four drugs used in Pre anaesthetic Medications
- 22) Name any two anti depressants

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**Q.P.CODE:505-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2018  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Give diagrammatic representation wherever necessary

---

- 56) Classify Penicillins. Write the mechanism of action, 2+2+2+2+2=10  
therapeutic uses and adverse effects of Benzyl Penicillin. Add a  
note on newer Penicillins.

WRITE SHORT NOTES ON:

5x4=20

- 57) 5- $\alpha$  Reductase Inhibitors  
58) Atorvastatin  
59) Omeprazole  
60) Mucolytics  
61) Mechanism of action and adverse effects of Sulphonylureas

WRITE BRIEFLY ON:

5X2=10

- 62) What are tocolytic agents? Give two examples?  
63) Mention the uses of D-Penicillamine  
64) Mention the uses of ofloxacin  
65) Mention the uses of Oxytocin  
66) Mention the adverse effects of Low Molecular Weight Heparin

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**Q.P.CODE:506-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2018

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

56) List the virulence factors of enterotoxigenic E. Coli (ETEC). 2+3+5=10

Describe the pathogenesis of diarrhoea caused by ETEC. Add a note on Laboratory diagnosis of Diarrhoea.

WRITE SHORT NOTES ON: 5X4=20

57) Complement fixation test

58) Natural Killer Cell

59) Type III Hypersensitivity Test

60) Bacterial Cell Wall

61) Laboratory Diagnosis of bacterial dysentery

WRITE BRIEFLY ON: 5X2=10

62) Trench Fever

63) Craigie's Tube

64) Morphology of C. Diphtheriae with diagram

65) Helper T cell

66) Transferable Drug Resistance

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**Q.P.CODE:506-B**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2018

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Give diagrammatic representation wherever possible.

---

56) Describe morphology and life cycle of Ankylostoma Duodenale. 4+4+2=10

Give laboratory diagnosis of Hook Worm Disease.

WRITE SHORT NOTES ON: 5X4=20

57) Clinical features and Laboratory diagnosis of Pinworm infection.

58) Morphology and life cycle of Leishmania Donovanii

59) Candidiasis

60) Role of Interferon in Virology

61) Rhinosporidiosis

WRITE BRIEFLY ON: 5X2=10

62) Enumerate viruses causing cancer

63) Differences between Antigenic Drift and Shift

64) Diseases caused by Adenoviruses

65) Blastomycosis

66) Measles vaccine

- - -



**Q.P. CODE:507-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2018  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

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56) A 35 year old man admitted with gradual weakness with dragging sensation left side of abdomen. His liver is 2cm and spleen is 15cm enlarged below costal margin. His Hb is 9.3 gm% TLC - 2,50,000/-cumm and Platelet count is 3,80,000/cumm. 1+4+2 ½ +2 ½ =10

- a) What is the probable diagnosis?
- b) Give the blood picture and molecular abnormality in this disease
- c) How will you differentiate it from Leukemoid reaction?
- d) Give five causes of massive splenomegaly.

WRITE SHORT NOTES ON:

5X4=20

- 57) Etiopathogenesis of Septic Shock
- 58) Blood and bone marrow picture in Iron deficiency anemia
- 59) Tabulate differences between lepromatous and tuberculoid leprosy
- 60) Enumerate oncogenic virus. Give pathogenesis of viral carcinogenesis
- 61) Type III hypersensitivity reaction with examples

WRITE BRIEFLY ON:

5X2=10

- 62) Give two tests to diagnose Van Willebrand's disease
- 63) Name four tumors caused by various viruses
- 64) What are the factors affecting healing
- 65) Name two tumors which metastasize to liver and two tumors which metastasize to lungs
- 66) Give four diagnostic tests for Sickle Cell Anemia

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**Q.P. CODE:507-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – JULY, 2018

SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(SYSTEMIC PATHOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

---

- 56) A 25 year old man is admitted with swelling of the upper end of tibia. X-ray shows a turnover in the metaphyseal area of tibia with evidence of new bone formation. 1+2+3+3=10
- a) What is the probable diagnosis?
  - b) Give the microscopic picture of the turnover with labeled diagram
  - c) Name the organs where it metastasizes
  - d) Classify bone tumors

WRITE SHORT NOTES ON:

5X4=20

- 57) Classify cirrhosis. Give gross and microscopic picture of alcoholic cirrhosis
- 58) Give the complications of bronchiectasis
- 59) What are the sequelae of an atheroma?
- 60) Differentiate between Crohn's disease and Ulcerative Colitis
- 61) Give the clinical and biochemical features of Carcinoid syndrome

WRITE BRIEFLY ON:

5X2=10

- 62) Give four complications of gall stones
- 63) Four Etiopathogenetic factors of urinary bladder cancer
- 64) Draw a labelled diagram of Seminoma testis and what is the route of spread
- 65) Name the thyroid tumors and indicate their route of spread
- 66) Give four microscopic features of Diabetic Kidney

**Q.P.CODE:508-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2018

SECOND M.B.B.S. EXAMINATION

**FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give Diagrammatic representation wherever necessary

---

- 56) Define Hanging. Mention the types of hanging. Explain the postmortem changes in a case of hanging. Add a note on Judicial hanging. 1+2+5+2=10

WRITE SHORT NOTES ON:

5X4=20

- 57) Rigor mortis
- 58) Entry and exit wound of a Rifle Bullet
- 59) Hydrostatic test
- 60) Testamentary capacity
- 61) Clinical features of Methanol poisoning

WRITE BRIEFLY ON:

5X2=10

- 62) Superimposition
- 63) Medicolegal aspects of abrasion
- 64) Joule burn
- 65) Whiplash injury
- 66) Body packers syndrome

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**Q.P.CODE:507-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA – 520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2019  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw diagrammatic representation wherever necessary

---

- 12) A 55 year old lady presented with progressive fatigue and tiredness for last one month. She also complained of tingling and numbness in the lower limbs. On examination she had pallor and her tongue had a glossy appearance. 1+2+5+2=10
- e) What is your diagnosis?
  - f) What is the cause for neurological symptoms in this condition?
  - g) What are the peripheral smear and bone marrow findings in this condition?
  - h) Which specific tests would you like to do to diagnose this condition?

**WRITE SHORT NOTES ON:**

5X4=20

- 13) Role of Rb gene in tumor suppression
- 14) Lab diagnosis of chronic myeloid leukemia
- 15) Pathogenesis of primary pulmonary tuberculosis
- 16) Morphology of lepromatous leprosy
- 17) Role of vasoactive amines in acute inflammation

**WRITE BRIEFLY ON:**

5X2=10

- 18) Fate of thrombus
- 19) Morphological changes in apoptosis
- 20) Variants of Reed Sternberg cell
- 21) Principle of Osmotic fragility test
- 22) List four clinical features of Klinefelter Syndrome

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**Q.P.CODE:507-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2019  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(SYSTEMIC PATHOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagram wherever necessary

- 
- 67) An 8 year old boy came with history of puffiness of face with decreased urine output. His urine examination revealed numerous RBCs with mild proteinuria. Renal biopsy was performed which showed glomerular hypercellularity with neutrophils. 1+5+4=10
- e) What is your diagnosis?
  - f) Describe the pathogenesis and laboratory findings in this condition.
  - g) What are the features on immunofluorescence and electron microscopy?

WRITE SHORT NOTES ON:

5X4=20

- 68) Sequence of serologic markers in acute hepatitis B infection
- 69) Light microscopic changes in the evolution of acute myocardial infarction in the first 14 days
- 70) Pathogenesis of cervical carcinoma
- 71) Discuss the different types of emphysema
- 72) Hereditary non-polyposis colorectal cancer

WRITE BRIEFLY ON:

5X2=10

- 73) Four differences between complete and partial mole
- 74) Enlist four major prognostic factors of carcinoma breast
- 75) Pathogenesis of Hashimoto's Thyroiditis
- 76) Microscopic features of basal cell carcinoma
- 77) Barrett Esophagus

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**Q.P.CODE:506-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2019

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

67) Describe the Pathogenicity and lab diagnosis of Pulmonary tuberculosis. Add a note on RNTCP. 3+4+3=10

WRITE SHORT NOTES ON:

5X4=20

68) Hot Air Oven

69) Bacterial spore

70) Lab diagnosis of Enteric Fever

71) Auto immunity

72) Anaphylaxis

WRITE BRIEFLY ON:

5X2=10

73) Enrichment media

74) Structure of IgM

75) Tyndallization

76) Two Non suppurative infections caused by Streptococci

77) VDRL Test

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**Q.P. CODE:506-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2019  
SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**  
(VIROLOGY, MYCOLOGY & PARASITOLOGY)  
PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Give diagrammatic representation wherever possible.

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67) Classify human fungus infections (Mycoses). Write a detailed note on various types of superficial mycoses. 3+7=10

WRITE SHORT NOTES ON: 5x4=20

68) Post exposure Prophylaxis in Rabies

69) Morphology and pathogenesis of Human Immunodeficiency Virus

70) Cultivation of Viruses

71) Life cycle and Pathogenicity of Taenia solium

72) Dimorphic Fungi

WRITE BRIEFLY ON: 5x2=10

73) Name two antifungal agents

74) MMR Vaccine

75) Name two Arboviral infections in India and their vectors

76) Morphology of influenza virus

77) NNN medium

**Q.P.CODE:505-A**

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2019  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 23) Classify Anticholinergics. Write the Pharmacological actions, uses and adverse effects of Atropine 3+3+2+2=10

WRITE SHORT NOTES ON:

5X4=20

- 24) Pharmacogenetics  
25) Selective Cox-2 Inhibitors  
26) Calcium Channel Blockers  
27) Thiazide Diuretics  
28) Atypical Antipsychotics

WRITE BRIEFLY ON:

5X2=10

- 29) What are the types of Receptors involved in Mechanism of drug action?  
30) Write any four contraindications for the use of morphine  
31) Name any two antiplatelet drugs and its mechanism of action  
32) Mention any 2 nasal decongestants and its side effects  
33) Mention any 2 oral and parenteral iron preparations and its side effects.

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**Q.P.CODE:505-B**



SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Give diagrammatic representation wherever necessary

---

- 67) Write the first line and second line anti TB Drugs. Explain the Mechanism of action, uses and adverse effects of Rifampicin. 3+2+2+3=10

WRITE SHORT NOTES ON:

5x4=20

- 68) Tetracycline  
69) Therapeutic uses of Corticosteroids  
70) Selective Estrogen Receptor Modulator (SERM)  
71) Proton Pump Inhibitors  
72) Common side effects of Anti cancer drugs

WRITE BRIEFLY ON:

5X2=10

- 73) Write any 4 antibiotics contraindicated in pregnancy and its effect on the foetus  
74) Treatment of H.Pylori Infection  
75) Mention any 4 drugs used for Hepatitis B virus infection  
76) Name  $\alpha$ -Glucosidase inhibitors and its side effects  
77) Mention four therapeutic uses of Chloroquine

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**Q.P.CODE:508-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2019  
SECOND M.B.B.S. EXAMINATION

**FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give Diagrammatic representation wherever necessary

---

- 67) Classify Organophosphates. Mention the clinical findings in 2+4+4=10  
Organophosphorus Poisoning. Describe the treatment of  
Organophosphorus poisoning.

WRITE SHORT NOTES ON:

5X4=20

- 68) Doctrine of Res Ipsa Loquitur  
69) Brainstem death  
70) Delusion and its medicolegal importance  
71) Medical Findings in a victim of Rape  
72) Medical Termination of Pregnancy Act

WRITE BRIEFLY ON:

5X2=10

- 73) Signs and Symptoms of Lead Poisoning  
74) Café Coronary syndrome  
75) Superfecundation and Superfetation  
76) Vicarious liability  
77) Negative Autopsy

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**Q.P.CODE:505-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – JULY, 2019  
SECOND M.B.B.S. EXAMINATION

# PHARMACOLOGY

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Give diagrammatic representation wherever necessary

---

- 34) Classify antiepileptic drugs. Describe the mechanism of action, adverse effects and therapeutic uses of Phenytoin sodium. 10

WRITE SHORT NOTES ON:

5X4=20

- 35) Define drug synergism, mention the different types with examples
- 36) Pharmacological actions and therapeutic uses of dopamine
- 37) Mention the differences between Aspirin and Paracetamol
- 38) Mechanism of action and therapeutic uses of Amiodarone
- 39) Selective Serotonin Reuptake Inhibitors (SSRI)

WRITE BRIEFLY ON:

5X2=10

- 40) Mention four vasodilators used in the treatment of hypertension
- 41) Mention four centrally acting skeletal muscle relaxants
- 42) Atropine is used for pre-anaesthetic medication – give reasons
- 43) Morphine is contraindicated in head injury – Give reasons
- 44) Thiazide diuretics are used in the treatment of Diabetes Insipidus. Give reasons.

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**Q.P.CODE:505-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2019  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Give diagrammatic representation wherever necessary

---

- 78) Classify oral hypoglycemic drugs. Explain the mechanism of action of any two groups. Outline the management of Diabetic Ketoacidosis. 10

WRITE SHORT NOTES ON: 5x4=20

- 79) Adverse effects and therapeutic uses of Amoxicillin  
80) Mechanism of action, adverse effects and therapeutic uses of Lamivudine  
81) Mechanism of action and contraindications of female oral contraceptives  
82) Mechanism of action and adverse effects of Isoniazid  
83) Mechanism of action and therapeutic uses of oral anti coagulants.

WRITE BRIEFLY ON: 5X2=10

- 84) Mention two anabolic steroids  
85) Mention any two drugs used in iron poisoning with route of administration.  
86) Mention four drugs used in Chloroquine Resistant Malaria  
87) Mention two low molecular weight (LMW) Heparins and two uses of them.  
88) Mention two Prostaglandins used in Obstetrics and two uses of them.

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**Q.P.CODE:506-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2019

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Give diagrammatic representation wherever possible

---

- 78) Describe the pathogenesis and laboratory diagnosis of Cholera. 4+3+3=10  
Add a note on its epidemiology.

WRITE SHORT NOTES ON: 5X4=20

- 79) Bacterial filters  
80) Blood Agar  
81) Laboratory diagnosis of Pyogenic meningitis  
82) Actinomycetes  
83) Secretory Immunoglobulin

WRITE BRIEFLY ON: 5X2=10

- 84) Nonsuppurative complications of Streptococcal infections  
85) BCG vaccine  
86) Pathogenesis of tetanus  
87) Bacterial conjugation  
88) Name two immunodeficiency diseases of T cell defects

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**Q.P.CODE:506-B**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2019

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Give diagrammatic representation wherever possible.

---

- 78) What are Arboviruses? Name four arboviral diseases common in India, their causative agents and vectors. Describe clinical features, laboratory diagnosis and prophylaxis of any one of them. 4+4+2=10

WRITE SHORT NOTES ON:

5X4=20

- 79) Histoplasma capsulatum.  
80) Epstein-Barr virus  
81) Laboratory diagnosis of Malaria  
82) Aspergillosis  
83) Universal precautions

WRITE BRIEFLY ON:

5X2=10

- 84) Naegleria fowleri  
85) Name four oncogenic viruses  
86) Toxoplasma gondii  
87) Antigenic shift  
88) What are inclusion bodies? Give two examples.

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**Q.P. CODE:507-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – JULY, 2019  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

---

67) A 2 yr old male presented with fatigue and breathlessness developing over 1 week. On examination he had gum bleeding, epistaxis with petechiae, lymphadenopathy and splenomegaly. CT scan showed presence of Mediastinal mass. 1+4+2+3 =10

- a) Give the possible diagnosis
- b) Give the peripheral blood and bone marrow findings
- c) Give the cytochemical staining properties
- d) What are the prognostic factors?

WRITE SHORT NOTES ON:

5X4=20

- 68) Tabulate the differences between Tuberculoid and Lepromatous Leprosy
- 69) Classification of anemias and lab diagnosis of Megaloblastic anemia
- 70) Role of interleukins in Acute inflammation
- 71) Examples of viral carcinogens and mechanisms of cell injury by viruses
- 72) Disseminated intravascular Coagulation

WRITE BRIEFLY ON:

5X2=10

- 73) Give four examples of immune complex –mediated type-II Hypersensitivity reactions
- 74) Give two clinical features and two testicular findings in Klinefelter Syndrome
- 75) Give four types of tissue necrosis with examples
- 76) Give four examples of deficiency diseases associated with four different components of Vitamin B complex
- 77) Describe any four morphologic changes in Lupus nephritis.

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**Q.P. CODE:507-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – JULY, 2019

SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(SYSTEMIC PATHOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

---

- 78) A 45 year old woman presented to the surgical OPD with yellowness in eyes and skin, passage of dark coloured urine and pale stools. She complained of right upper abdominal pain on and off, nausea and vomiting. On USG, radio opaque shadows were seen in Right upper quadrant of abdomen. 1+4+3+2=10
- a) What is the most likely diagnosis?
  - b) What investigations would be appropriate?
  - c) What is the etiopathogenesis of this lesion?
  - d) What are the complications of this disease?

WRITE SHORT NOTES ON:

5X4=20

- 79) Morphological changes in brain in Alzheimer's disease
- 80) Etiopathogenesis and morphology of small cell carcinoma lung
- 81) Morphological features and complications of Ulcerative colitis
- 82) Etiopathogenesis of Viral hepatitis and its complications
- 83) Types and morphology of Renal cell carcinoma

WRITE BRIEFLY ON:

5X2=10

- 84) Types of Gall stones
- 85) Osteosarcoma – its common sites, radiological and microscopic findings
- 86) Microscopic pattern of follicular adenoma Thyroid
- 87) Risk factors of atherosclerosis and its complications
- 88) Causes of prostatic enlargement – write morphology of benign prostatic hyperplasia.

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**Q.P.CODE:508-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JULY, 2019

SECOND M.B.B.S. EXAMINATION

**FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Give Diagrammatic representation wherever necessary

---

- 78) Define Medical Negligence. Describe the ingredients of medical negligence. Mention the defenses for doctors in alleged medical negligence cases. 2+4+4=10

WRITE SHORT NOTES ON:

5X4=20

- 79) Dactylography  
80) Adipocere and Mummification  
81) Hydrostatic test  
82) Medical findings in a victim of sodomy  
83) Plumbism

WRITE BRIEFLY ON:

5X2=10

- 84) Subpoena  
85) Fabricated injury  
86) Objectives of medicolegal autopsy  
87) Hallucination  
88) Run amok

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**Q.P.CODE:505-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-I

Time : 2 Hours

Max. Marks : 40

Note : Answer all questions

Draw neat diagrams wherever necessary

---

- 45) Classify the drugs used in the treatment of hypertension. Write 3+3+2+2=10  
the Pharmacological action, uses and adverse effects of ACE  
inhibitors (Angiotensin Converting Enzyme Inhibitors)

WRITE SHORT NOTES ON:

5X4=20

- 46) Drug Antagonism  
47) Pethidine  
48) Vecuronium  
49) Uses and side effects of Furosemide  
50) Treatment of status epilepticus

WRITE BRIEFLY ON:

5X2=10

- 51) Write two uses of Digoxin  
52) What is drug synergism? Give two examples.  
53) Routes of administration of local anaesthetics  
54) Write any two uses and adverse effects of Nitrates  
55) Name two plasma expanders and its uses

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**Q.P.CODE:505-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020  
SECOND M.B.B.S. EXAMINATION

**PHARMACOLOGY**

PAPER-II

Time : 2 Hours

Max. Marks : 40

Answer all questions

Draw neat diagrams wherever necessary

---

89) Classify Corticosteroids. Write the uses and adverse effects of Corticosteroid preparations. 3+4+3=10

WRITE SHORT NOTES ON: 5x4=20

90) Anti HIV Regimen

91) Topical Antifungal Agents

92) Vancomycin

93) Metoclopramide

94) Toxicity Amelioration of Anticancer drugs

WRITE BRIEFLY ON: 5X2=10

95) Mention four inhalation steroids in Bronchial Asthma

96) Mention the drugs used for treatment of tapeworm infection

97) Name two iron chelating agents

98) Mention the drugs used in treatment of Thyrotoxicosis

99) Write two stimulant Purgatives and its uses

---

**Q.P.CODE:506-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(BACTERIOLOGY & IMMUNOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagrams wherever necessary

- 
- 89) Enumerate Bacteria causing Sexually Transmitted Diseases. 2+3+5=10  
Describe Pathogenicity and laboratory diagnosis of Syphilis

WRITE SHORT NOTES ON: 5X4=20

- 90) Chemical sterilization  
91) ELISA  
92) Bacterial flagellum  
93) Cell Mediated Immunity  
94) Morphology of C. Diphtheriae with diagram

WRITE BRIEFLY ON: 5X2=10

- 95) Robertson's Cooked Meat medium  
96) Pasteurization  
97) Structure of IgG  
98) Name four bacteria causing UTI  
99) Four phases of Bacterial growth curve

---

**Q.P.CODE:506-B**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

**MICROBIOLOGY**

(VIROLOGY, MYCOLOGY & PARASITOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions.

Draw neat diagrams wherever necessary

---

- 89) List the Intestinal nematodes pathogenic to man. Describe the life cycle and Pathogenicity of *Ancylostoma duodenale* 3+4+3=10

WRITE SHORT NOTES ON:

5X4=20

- 90) Tissue culture  
91) Polio virus  
92) Hydatid cyst  
93) Morphology and Pathogenicity of *Entamoeba histolytica*  
94) Describe any three opportunistic Fungi

WRITE BRIEFLY ON:

5X2=10

- 95) List two subcutaneous mycoses  
96) Two Antiviral agents  
97) Structure of HIV  
98) NIH Swab  
99) Two parasites causing infections in immunocompromised patient

- - -

**Q.P. CODE:507-A**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8  
M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020  
SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(GENERAL PATHOLOGY & HAEMATOLOGY)

PAPER-I

Time : 2 Hours

Max. Marks: 40

Note: Answer all questions

Draw neat diagram wherever necessary

---

78) A 32 year old man is admitted with history of weakness and dragging sensation on left side of abdomen. On examination, his liver is enlarged to 3cm below costal margin and spleen is enlarged to 15cm below costal margin. His TLC is increased to 2,30,000/cumm. 2+2+3+3=10

- a) What is the possible diagnosis? What is likely to be the differential leucocyte count.
- b) What is the diagnostic genetic abnormality in this condition?
- c) To which group of diseases, does this entity belong to? Name the other diseases
- d) Give the clinical picture of this disease

WRITE SHORT NOTES ON:

5X4=20

- 79) Tabulate the differences between iron deficiency anemia and Thalassemia major
- 80) Classify bleeding disorders. Give lab diagnosis of Hemophilia A.
- 81) Pathogenesis of Septic Shock
- 82) Role of Prostaglandins in acute inflammation
- 83) Tumor markers

WRITE BRIEFLY ON:

5X2=10

- 84) Name four autosomal dominant disorders
- 85) Write four clinical and lab features of Multiple Myeloma
- 86) Mention four complications of Bacterial Endocarditis
- 87) Give two tests to diagnose Van Willebrand's disease
- 88) Name four viral carcinogens.

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**Q.P. CODE:507-B**

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA - 8

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

**PATHOLOGY**

(SYSTEMIC PATHOLOGY)

PAPER-II

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

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- 89) A 56 year old male patient is admitted with swelling of eyelids and puffiness of face. He is a known case of chronic bronchiectases for last 6 years. He has been advised a kidney biopsy. 1+5+2+2=10
- a) What is the most likely diagnosis?
  - b) What are the gross and microscopic findings in kidney in this disease?
  - c) Classify the disease
  - d) Name the special stains for diagnosis

WRITE SHORT NOTES ON:

5X4=20

- 90) Papillary carcinoma of thyroid
- 91) CSF findings in Pyogenic Meningitis
- 92) Gastric Carcinoma – Location, types and metastasis
- 93) Histological types of Malignant Melanoma.
- 94) Types and morphology of seminoma testis

WRITE BRIEFLY ON:

5X2=10

- 95) Classify cirrhosis of liver
- 96) Tabulate the differences between Centriacinar and Panacinar Emphysema
- 97) Classify Hodgkin's disease
- 98) Osteogenic Sarcoma – common sites, radiological and microscopic picture
- 99) Draw a neat diagram of teratoma ovary.

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**Q.P.CODE:508-A**

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – FEBRUARY, 2020

SECOND M.B.B.S. EXAMINATION

**FORENSIC MEDICINE**

Time : 2 Hours

Max. Marks: 40

Note : Answer all questions

Draw neat diagrams wherever necessary

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- 89) Define Hanging. Describe the types of hanging. Explain the causes of death due to hanging. 2+4+4=10

WRITE SHORT NOTES ON:

5X4=20

- 90) Signs of live birth
- 91) Postmortem Lividity
- 92) Enumerate differences between criminal negligence and civil negligence
- 93) Postmortem findings in case of wet drowning
- 94) Types of skull fractures

WRITE BRIEFLY ON:

5X2=10

- 95) Signs and symptoms of Lead poisoning
- 96) Pugilistic attitude
- 97) Whiplash injury
- 98) Section 304(B) of Indian Penal Code
- 99) Perjury