

M.B.B.S. [2nd Prof.]

BF/2009/05

Pathology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions. Draw labeled diagrams wherever necessary..

USE SEPARATE ANSWER SHEET FOR EACH PART.

PART - I

1. What are the types of Necrosis. Give 3 examples of each. Discuss etiology and morphological features of Caseous necrosis. [2+2+2+2=8]
2. **Write short notes on:** [3x2=6]
 - a. Pulmonary embolism.
 - b. D.I.C.
 - c. Graft Versus Host disease.
3. **Discuss etiopathogenesis of:** [3x2=6]
 - a. Septic Shock.
 - b. Pathologic calcification.
 - c. Lepromatous Leprosy.

PART - II

4. Describe etiopathogenesis, clinical features and laboratory diagnosis of Iron deficiency anaemia. [8]
 5. **Write short notes on:** [2x3=6]
 - a. Sideroblastic anaemia.
 - b. FAB classification of A.M.L.
 6. **Enumerate causes and laboratory diagnosis of following:** [3x2=6]
 - a. Haemophilia.
 - b. Hereditary spherocytosis.
 - c. I.T.P.
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Pathology - B

M.M. : 40

Time : 3 Hours

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USE SEPARATE ANSWER SHEET FOR EACH PART.

PART - I

1. Classify Ischaemic heart disease. Write briefly about chronological morphological and biochemical changes in acute myocardial infarction. [1+3+3]
2. **Write short notes on:**
 - a. Asbestosis. [3]
 - b. Pleomorphic adenoma. [3]
3. **Tabulate the difference between:**
 - a. Type I and Type II Diabetes Mellitus. [4]
 - b. Typhoid & Tubercular enteritis. [3]

PART - II

4. **Write short notes on:**
 - a. Dermoid cyst. [3]
 - b. Osteogenic Sarcoma - its clinico radiological and morphological features. [4]
5. **Write briefly about:**
 - a. R.P.G.N. [3]
 - b. Various types of Meningitis. [4]
6. **Write short notes on:**
 - a. Phylloides tumour. [3]
 - b. Cervical Pap smear. [3]

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Microbiology - A

M.M. : 40

Time : 3 Hours

Note : *Attempt all questions.*

USE SEPARATE ANSWER SHEET FOR EACH PART.

PART - I

1. **Write short notes on:**
 - a. Mechanism of drug resistance in bacteria. [3]
 - b. Contribution of Louis Pasteur in microbiology [2]

2. **Describe briefly the following:**
 - a. Immunoglobulin M. [4]
 - b. ELISA. [4]

3. **Write briefly on:**
 - a. Cell wall deficient bacteria. [3]
 - b. Bacterial virulence factors. [4]

PART - II

4. Describe pathogenesis and laboratory diagnosis of Syphilis. [5+5]

5. **Write short notes on:**
 - a. Mycobacterium avium complex. [2¹/2]
 - b. Elek's test. [2¹/2]

6. **Write short notes on:**
 - a. Enterotoxins of E. Coli. [2¹/2]
 - b. Vincent's angina. [2¹/2]

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Microbiology - B

M.M. : 40

Time : 3 Hours

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PART - I

1. Describe the internal structure and laboratory diagnosis of Hydatid cyst. [8]
2. **Write short notes on:**
 - a. Stool concentration technique. [3]
 - b. Differences in microscopic findings of a stool sample in Bacillary and Amoebic dysentery. [3]
3. **Write briefly on:**
 - a. Laboratory diagnosis of Kala-azar. [3]
 - b. Plasmodium falciparum. [3]

PART - II

4. Describe briefly the pathogenesis, laboratory diagnosis and prevention of Dengue Haemorrhagic fever. [8]
5. **Write short notes on:**
 - a. Antigenic variation in influenza virus. [3]
 - b. Viral Gastroenteritis. [3]
6. **Write briefly on:**
 - a. Pneumocystic Jirovecii. [3]
 - b. Superficial mycoses. [3]

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Pharmacology - A

M.M. : 40

Time : 3 Hours

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PART - I

1. Discuss biotransformation of drugs. [6]

2. **Write short notes on:**
 - a. I.V. general anaesthetics. [2]
 - b. Non opioid antitussive drugs. [2]
 - c. H₂ receptor blockers. [2]

3. **Describe the pharmacological basis of the use of the following drugs with important adverse effects:**
 - a. Atenolol in Hypertension. [2]
 - b. Pralidoxime in Organophosphorus poisoning. [2]
 - c. COMT inhibitors in Parkinson's disease. [2]
 - d. Sodium Valproate in Seizures. [2]

PART - II

4. Classify nonsteroidal anti-inflammatory, analgesics and antipyretic drugs. Describe their important therapeutic uses and adverse effects. [6]

5. **Write an account of:**
 - a. Dantrolene Sod. [2]
 - b. Desferrioxamine. [2]
 - c. Leukotriene receptor antagonists. [2]
 - d. Prazosin. [2]

6. **Write short notes on the followings:**
 - a. Ondansetron. [2]
 - b. Atypical antipsychotics. [2]
 - c. Plasma half life. [2]

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Pharmacology - B

M.M. : 40

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PART - I

1. Write the drugs used for the treatment of Congestive heart failure. Describe the mechanism of action and adverse effects of Ace inhibitors. [8]
2. **Write short notes on:**
 - a. Oral contraceptives. [3]
 - b. Thyrotoxic crisis. [3]
3. **Briefly discuss:**
 - a. Anti-platelet drugs. [3]
 - b. Parenteral iron therapy. [3]

PART - II

4. Write the treatment of Chloroquine resistant Malaria. Discuss the pharmacological actions and adverse effects of Quinine. [8]
5. **Justify the use of :**
 - a. Clavulonic acid with Amoxicillin in treatment of Staphylococcal infections. [3]
 - b. Pyridoxin with Isoniazid in Tuberculosis. [3]
6. **Write short notes on:**
 - a. Topical anti-fungal agents. [3]
 - b. Zidovudine. [3]

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Forensic Medicine

M.M. : 40

Time : 3 Hours

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PART - I

1. Give medicolegal importance of determination of Age. [4]
2. Define Death. Give an account of essential requirements, aims and objectives of a medicolegal autopsy. [2+2+2=6]
3. **Write short notes on:** [5x2=10]
 - a. Suffocation.
 - b. Entry wound of fire-arm injury viz-a-viz Range(s).
 - c. Section 375 IPC.
 - d. Professional secrets.
 - e. Restraint of a mentally ill patient.

PART - II

4. Give an account of general line of management in a case of Suspected Poisoning. [5]
 5. **Differentiate between:** [3x2=6]
 - a. Organophosphate insecticides and Carbamates.
 - b. Poisonous and non poisonous snakes.
 - c. A case of Strychnine poisoning and Tetanus.
 6. **Write short notes on:** [3x3=9]
 - a. Plumbism.
 - b. Acute radiation sickness.
 - c. Procedure of collection, preservation and dispatch of Viscera for F.S.L. examination.
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