

# M.B.B.S. [2<sup>nd</sup> 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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# M.B.B.S. [2<sup>nd</sup> Prof.]

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## Pathology - B

M.M. : 40

Time : 3 Hours

*Note : Attempt all questions. Draw labeled diagrams wherever needed.*

**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. [2<sup>1</sup>/2]
  - b. Elek's test. [2<sup>1</sup>/2]
  
6. **Write short notes on:**
  - a. Enterotoxins of E. Coli. [2<sup>1</sup>/2]
  - b. Vincent's angina. [2<sup>1</sup>/2]

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## Microbiology - B

M.M. : 40

Time : 3 Hours

Note : *Attempt all questions.*

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### 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

Note : Attempt all questions.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### 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. H<sub>2</sub> 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

Time : 3 Hours

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**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### 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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**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### 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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