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

# BF/2015/11

#### Pathology - A

###### M.M. : 40 Time : 3 Hours

Note : Attempt all questions. Draw diagrams wherever necessary.

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

**PART - I**

1. Enumerate chemical mediators of inflammation. Discuss in detail cytokines? [2+2=4]

2. **Write short notes on the following**:

 a. Metaplasia. [2]

 b. Histocompatibility Antigens. [2]

 c. Features of malignant tumors. [2]

3. **Write briefly about**:

 a. Repair by primary healing. [4]

 b. SLE. [2]

 c. Lepromatous leprosy. [4]

**PART – II**

4. What do you understand by Plasma Cell Disorders, what tests would you do in the laboratory? [2+2]

5. **Write short notes on the following**:

 a. Acute myeloid leukemia. [3]

 b. Lab diagnosis of iron deficiency anaemia. [3]

 c. Ph chromosome. [1]

6. **Discuss briefly about:**

 a. Aplastic anaemia. [3]

 b. Neutrophilia. [3]

 c. Hb F. [3]

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

# BF/2015/11

#### Pathology - B

###### 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. **Write short notes on**:

 a. Small cell carcinoma lung. [3]

 b. Minimal change glomerular disease. [3]

2. **Describe briefly:**

 a. Alcoholic liver disease- Spectrum of morphological changes. [4]

 b. Differences between tuberculosis and typhoid ulcers in small intestine. [3]

3. **Briefly discuss:**

 a. Cholelithiasis- types and complications. [4]

 b. Meningioma. [3]

**PART – II**

4. **Briefly discuss:**

 a. Vegetations in cardiac valves. [4]

 b. Hashimoto Thyroiditis. [3]

5. **Write short notes on:**

 a. Reed Sternberg cell. [3]

 b. Barrett Esophagus. [3]

6. **Write short note on:**

 a. Osteogenic sarcoma. [4]

 b. Dermoid cyst of ovary. [3]

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

# BF/2015/11

#### Microbiology - A

###### M.M. : 40 Time : 3 Hours

Note : Attempt all questions.

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

**PART - I**

1. What is ELISA? Discuss its various types in details. [8]

2. **Write in briefly:-**

 a. Bacterial grow curve. [3]

 b. Autoclave. [3]

3. **Describe briefly:-**

 a. Monoclonal antibodies. [3]

 b. Immune response. [3]

**PART – II**

4. Write the various aetiological agents responsible for causing urinary tract infections. What is significant bacteriuria. [8]

5. **Discuss briefly**:-

 a. Relapsing fever. [3]

 b. Toxic shock syndrome. [3]

6. **Write as short notes:-**

 a. Gas gangrene. [3]

 b. Widal test. [3]

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

# BF/2015/11

#### Microbiology - B

###### M.M. : 40 Time : 3 Hours

Note : Attempt all questions.

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

**PART - I**

1. A 25 years old male complains of fever with chills and rigors every third day for last 10 days. Peripheral blood smear examination shows signet ringed trophozoites in the red blood cells.

 a. What is diagnosis and etiological agent? [2]

 b. Discuss its life cycle and laboratory diagnosis. [3+3=6]

2. **Write short notes on any TWO**:[3+3]

 a. Laboratory diagnosis of Filariasis.

 b. Cysticercus cellulosae.

 c. Morphological classification of fungi.

3. **Write briefly on any TWO**: [3+3]

 a. Mucormycosis.

 b. Laboratory diagnosis of cryptococcal meningitis.

 c. Etiology of dermatophytosis.

**PART – II**

4. a. Enumerate viruses causing diarrhoea. [2]

b. Discuss clinical syndromes caused by adeno virus and its laboratory diagnosis. [6]

5. **Write short notes on any TWO :**  [3+3]

 a. Virus growth in tissue culture.

 b. Antigenic variations of influenza virus.

 c. Post exposure prophylaxis in rabies.

6. **Write briefly on any TWO.**  [3+3]

 a. Diseases transmitted by ticks.

 b. Diseases transmitted by rat flea.

 c. Vectors.

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

# BF/2015/11

####  Pharmacology - A

###### M.M. : 40 Time : 3 Hours

Note : Attempt all questions.

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

**PART - I**

1. a. G-protein coupled receptors and their signal transduction mechanism. [3]

b. Pharmacokinetic features requiring loading dose of a drug. [3]

2. P**harmacological basis for the use of:**

 a. Atropine in physostigmine poisoning. [2]

 b. α-adrenoceptor blocker in BPH. [2]

 c. Acetylcysteine in paracetamol poisoning. [2]

 d. Lithium in bipolar depression. [2]

3. S**hort notes on:**

 a. SSRI. [2]

 b. Pharmacogenetically mediated ADR. [2]

 c. Endogenous antiseizure substances. [2]

**PART – II**

4. Classify NSAIDS. Discuss the MOA, uses and side effects of aspirin. [6]

5. **Explain why:-**

a. Atropine is contraindicated in glaucoma. [2]

b. Alaklinization of urine is beneficial in the treatment of salicylate poisoning. [2]

c. Morphine is contraindicated in head injury. [2]

 d. Adrenaline is combined with lidocaine. [2]

6. **Discuss the drug therapy of:-**

 a. Opioid dependence. [2]

 b. Iron poisoning. [2]

 c. Malignant hyperthermia. [2]

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

# BF/2015/11

#### Pharmacology - B

###### M.M. : 40 Time : 3 Hours

Note : Attempt all questions.

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

**PART - I**

1. **Discuss the therapeutic uses of:**

a. Fat soluble vitamins. [4]

 b. Anti-oxidants. [4]

2. **Write briefly on:**

a. OCP. [3]

 b. Metronidazole. [3]

3. **Write pharmacotherapy of**:

 a. Congestive heart failure. [3]

 b. Acute myocardial infarction. [3]

**PART – II**

4. **Discuss the drug treatment of:**

a. Hook worm anaemia. [4]

b. Scabies. [4]

5. Discuss the pharmacotherapy of cerebral malaria. [6]

6. **Write short note on**:

 a. Inhalational glucocorticoids. [3]

 b. Drugs used in H1N1 infection. [3]

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

# BF/2015/11

#### Forensic Medicine

###### M.M. : 40 Time : 3 Hours

Note : Attempt all questions.

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

**PART – I**

1. Enumerate the various Immediate, early and late changes after death. How do they help in estimating the time since death? [2+3=5]

2. **Write short notes on:-** [3x3=9]

 a. Incised-looking wound.

b. Section 320 IPC.

 c. Various samples to be collected in a victim of rape.

3. **Write short notes on:**  [3x2=6]

 a. Locard’s Principle of exchange.

 b. Intra-cranial haemorrhages.

 c. Throttling.

**PART – II**

4. Classify poisons. Discuss the general principles of treatment of a case of poisoning. [4+4=8]

5. **Differentiate between:-** [3x2=6]

 a. True and false virgin.

 b. Arsenic poison and cholera.

 c. Respired and un respired lungs.

6. **Write short notes on:-** [3x2=6]

 a. Dying declaration.

 b. Delirium tremens.

 c. Doctrine of res ipsa loquitur.

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