

QP Code:

Reg. Number:

Second Professional MBBS Degree Examination

(MODEL QUESTION PAPER)

FORENSIC MEDICINE & TOXICOLOGY

Time: 2 hrs

Max marks: 40

- *Answer all questions.*
- *Draw diagrams wherever necessary*

Essay:

(7)

1. A 23 year old girl was brought to casualty with history of vomiting after consuming a fruit which looked like an unripe mango with fibrous covering enclosing a kernel. Pulse was irregular and weak. She died soon after. Answer the following questions.
 - What was she suffering from .
 - What are the ingredients of the poisonous fruit consumed .
 - How will you confirm the diagnosis .
 - What is the likely cause of death in such cases .

(2+2+2+1=7)

Short notes:

(5x3=15)

2. External autopsy findings in death due to hanging
3. Cardiovascular causes of sudden death
4. Causes of impotence in men
5. Age estimation from single tooth
6. Battered baby syndrome

Answer briefly

(5x2=10)

7. Dying declaration
8. Algor mortis
9. Ingredients required for proof of negligence
10. Disputed paternity
11. Privileged communication

Differentiate between

(2x2=4)

12. True and feigned insanity
13. Entrance and exit wounds of firearm discharge

Draw & Label

(2x2=4)

14. Human spermatozoa
15. Gastric lavage tube

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Second Professional MBBS Degree Examination

(MODEL QUESTION PAPER)

MICROBIOLOGY- Paper I

Time: 2 hrs

Max marks: 40

- *Answer all questions.*
- *Draw diagrams wherever necessary*

Essay:

(10)

1. Read the clinical history and answer the following questions.:

A 30 year old male comes to the Medical O.P with complaints of fever of 2 weeks duration. He has dry cough & weight loss .X-Ray reveals area of consolidation in the apex of the right lung.

- Mention the probable diagnosis and source of infection..
- List the specimens to be sent for laboratory diagnosis in this case.
- How will you proceed with laboratory diagnosis in this case.
- How can the disease be prevented.
- Mention the skin test done routinely for the diagnosis. Discuss the interpretation.

(1+1+4+2+2=10)

(2x5=10)

Short essays:

2. Pathogenesis and lab diagnosis of cholera
3. Type I hyper sensitivity reaction

Short notes:

(10x2=20)

4. Clostridium difficile
5. Inspissation
6. Bacterial growth curve
7. Null cells
8. Transport medium
9. Legionella pneumophila
10. TRIC agents
11. Scrub typhus
12. Methicillin-resistant staphylococcus aureus (MRSA)
13. Coliform count

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MICROBIOLOGY- Paper II

Time: 2 hrs

Max marks: 40

- *Answer all questions.*
- *Draw diagrams wherever necessary*

Essay:

(10)

1. Read the clinical history and answer the following questions:

A 50 year old male presented with low grade fever of one month duration. He had fatigue and loss of appetite. O/E there was hepatomegaly and yellowish discolouration of sclera. He gives a history of blood transfusion three months back.

- What is the probable diagnosis and causative agent.
- What is the pathogenesis.
- Which are the serological markers which will help in the diagnosis and assessment
- of severity of the disease.
- What is the prophylaxis.
- How do you treat this patient.
- Name four viruses transmitted through blood transfusion. (1+2+3+2+1+1=10)

Short essays:

(2x5=10)

2. Kala azar
3. Entamoeba histolytica

Short notes:

(10x2=20)

4. Rhinosporidiosis
5. Prions
6. Cryptococcus neoformans
7. Tzanck smear
8. Hydatid cyst
9. Highly active anti retroviral therapy (HAART)
10. Pneumocystis jiroveci
11. Occult filariasis
12. Pathogenesis of dengue virus infection
13. Trichomonas vaginalis

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(MODEL QUESTION PAPER)

CLINICAL PATHOLOGY AND GENERAL PATHOLOGY- Paper I

Time: 2 hrs

Max marks: 40

- *Answer all questions.*
- *Draw diagrams wherever necessary*

Essay: (8)

1. Define inflammation. Describe briefly the cellular and humoral mediators of inflammation. Mention the different morphological patterns of acute inflammation with examples. (1+4+3=8)

Short essay: (6)

2. A 50 year old man developed sudden chest pain with vomiting. He was dysnoeic. O/E he was febrile. ECG- showed ST elevation and T wave inversion. TC- 15,200/cmm, ESR: 40mm/hr. The patient died 12 hours later.
 - What is your diagnosis and mention the reason
 - What are the lab.investigations to be done at the time of admission.
 - Describe the gross and microscopic features of the organ primarily involved .
 - List four major complications. (1+2+2+1=6)

Short notes: (4x4=16)

3. Pathogenesis of reversible cell injury.
4. Blood grouping and cross matching.
5. Routes of metastasis.
6. CSF examination.

Answer briefly (4x2=8)

7. Ghons complex.
8. Ketonuria
9. Scurvy
10. Fat embolism

Answer in single sentence (4x½ =2)

11. Define metaplasia.
12. List two infective ulcers of the intestine
13. Define Type II hypersensitivity reaction.
14. Mention two tests for proteinuria

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(MODEL QUESTION PAPER)

HAEMATOLOGY AND SYSTEMIC PATHOLOGY- Paper II

Time: 2 hrs

Max marks: 40

- *Answer all questions.*
- *Draw diagrams wherever necessary*

Essay: (8)

1. Classify tumors of the lung. Briefly discuss the etiopathogenesis of carcinoma of lung. Describe the gross and microscopy of the most common malignant tumour of lung. (2+3+3=8)

Short essay: (6)

2. A 15 year old male, presented with fever, sore throat, cervical lymph node enlargement. Investigations: TC 14,000/cmm, DC-p20L75E5. Peripheral smear-No immature cells seen.
 - What is your diagnosis.
 - Describe the characteristic peripheral smear findings.
 - Mention the etiology of this condition.
 - Mention the test to confirm the diagnosis.
 - Name two organs involved in this condition(1+2+1+1+1= 6)

Short notes: (4x4=16)

3. Etiopathogenesis of peptic ulcer.
4. Lab. Investigations in multiple myeloma
5. Medullary carcinoma of thyroid.
6. Paget's disease of bone.

Answer briefly (4x2=8)

7. Peripheral smear findings in megaloblastic anaemia
8. List the hepatocyte changes in acute viral hepatitis.
9. Classification of renal cell carcinoma
10. Sideroblasts in bone marrow

Answer in single sentence (4x½ =2)

11. MEN type-I
12. Mott cell.
13. Caplan's syndrome.
14. Schiller- Duval body

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**Second Professional MBBS Degree Examination
(MODEL QUESTION PAPER)
PHARMACOLOGY- Paper I**

Time: 2 hrs

Max marks: 40

- Answer all questions.
- Draw diagrams wherever necessary

Essays:

(2x6=12)

1. Enumerate four groups of antihypertensives with one example for each. Mention four drugs safe for use in pregnancy. Describe the pharmacological action, adverse effects and drug interaction of any one antihypertensive (2+2+ 2= 6)
2. Read the clinical problem and answer the following questions: Ramesh, 28 years was administered an injection of adrenaline with lignocaine at base of his thumb for nail extraction. Later he developed severe gangrene of thumb:
 - Why has gangrene developed and how could this have been avoided.
 - Mention the mechanism and pharmacological actions of adrenaline and lignocaine
 - List two other surface anaesthetics and mention their adverse effects
 - Mention the cardiac use of lignocaine with dose and rationale. (1+2+2+1=6)

Short notes:

(5x3=15)

3. Succinylcholine
4. Teratogenicity
5. Ketamine
6. Chlorpromazine
7. Cardiogenic shock

Answer briefly:

(5x1=5)

8. Rationale for use of sumatriptan in acute attack of migraine
9. Two uses and two adverse effects of lithium
10. Appropriate drug and justification of the use of Diazepam / Alprazolam in depressed person with anxiety.
11. Mechanism of action of neostigmine
12. Tachyphylaxis. List one example

Name two drugs for:

(8x1=8)

13. Grandmal epilepsy
14. Drugs administered sublingually
15. Cerebroselective anticholinesterases
16. 5HT₃ antagonists
17. Antidepressants effective in chronic pain
18. Fibrinolytic agents
19. Drugs for hypotension
20. Diuretics used in cerebral edema

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**Second Professional MBBS Degree Examination
(MODEL QUESTION PAPER)
PHARMACOLOGY- Paper II**

Time: 2 hrs

Max marks: 40

- Answer all questions.
- Draw diagrams wherever necessary

Essay:

(2x6=12)

1. Read the case history and answer the following questions: Ramesh 40 years, is an alcoholic and a smoker. He gives history of nausea, abdominal pain, heart burn, loss of appetite and one episode of haematemesis. Endoscopy confirms peptic ulceration
 - Prescribe a drug for the above condition with dosage schedule
 - Mention its mechanism of action and adverse effects
 - What advice on life style modification should be given to him.
 - List two drugs from different groups which can cause peptic ulceration

(2+2+ 1+1= 6)
 2. Classify oral hypoglycemic drugs. Mention the mechanism of action, adverse effects and drug interactions of any one drug. Name two drugs which cause hyperglycemia
- (2 +1+1+1+1= 6)

Short notes:

(5x3=15)

3. Protease inhibitors
4. Cyclophosphamide
5. OCP
6. Newer insulins
7. Fluconazole

Answer briefly

(5x1=5)

8. Mention two important uses and two adverse effects of methotrexate
9. Comment on the interaction produced by ciprofloxacin and theophylline
10. Specify the important spectrum of ceftriaxone
11. Pharmacological basis of combining anti tuberculous drugs
12. Mechanism of action of linezolid

Name two drugs for

(8x1=8)

13. Constipation
14. Penicillins effective against pseudomonas infection
15. MRSA infection
16. Superficial fungal infection
17. Lepromatous leprosy
18. Hypoglycaemic coma
19. Typhoid fever
20. Pseudomembranous colitis
