

POST-GRADUATE DEGREE (M.D.) EXAMINATION – OCTOBER 2022

Time: 3 Hours

Max. Marks: 100

PATHOLOGY

PAPER – I

(General Pathology including environmental pathology / pathophysiology / immunopathology with recent advances and applied pathology)

Q.P. Code: 1213

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe pathology and laboratory diagnosis of systemic lupus erythematosus.
2. Discuss etiopathogenesis and complications of atherosclerosis.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss Air embolism.
4. Discuss utility of telepathology.
5. Oncogenes.
6. Describe Gaucher's disease.
7. Discuss role of tumor markers in the diagnosis of cancer.
8. Dystrophic calcification.

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RESPIRATORY MEDICINE

PAPER – I

(Basic sciences including anatomy and physiology pertaining to respiratory system)

Q.P. Code: 1257

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss various pulmonary defence mechanisms and its clinical significance. (15+5)
2. Describe Oxygen dissociation and carbon dioxide transport in blood and discuss Hypercapnia. (7+7+6)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Define anatomical dead space. Describe anatomy and its clinical significance. (3+2+5)
4. Define Flow-volume loop. Mention the types and its clinical significance. (2+3+5)
5. What is Pulmonary surfactant? Describe its formation and composition. Mention its defects in synthesis and add a note on clinical significance.
6. What is Bronchial challenge test? How to perform the test. Add a note on clinical significance along with interpretation.
7. What is DLCO (Diffusion Lung Capacity for Carbon Monoxide). Mention the formula, normal value and discuss the conditions when it is increased and decreased. Add a note on its clinical applications.
8. What is Functional Residual Capacity? How to measure FRC. Mention the normal and abnormal values and discuss the clinical applications of FRC.

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GENERAL SURGERY

PAPER – I
(Basic Sciences)

Q.P. Code: 1261

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Classify Burns. Discuss the Wallace's rule. Describe the management of 50% burns in a female weighing 50kg and its associated complications. (5+5+10)
2. Discuss aetiopathogenesis of varicose veins in lower extremity. Describe clinical features, investigations and management of varicosity involving long saphenous vein in lower limb. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Parenteral Nutrition.
4. Significance of CD₄ count.
5. Damage control surgery.
6. Vacuum assisted closure of wound.
7. Classify vascular malformations.
8. Use of platelets in surgery.

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OBSTETRICS AND GYNAECOLOGY

PAPER – I

(Basic Sciences and medical genetics)

Q.P. Code: 1265

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the causes of primary Amenorrhoea? What is Androgen insensitivity syndrome? How will you diagnose and manage a case of Androgen insensitivity syndrome? (10+5+5)
2. Discuss the anatomical and physiological changes in the breast tissue during pregnancy and lactation. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss the goals of preconceptional counseling.
4. Discuss the diagnosis of Macrosomia and its complications.
5. Apgar score and its clinical implications.
6. Describe the significance of transformation zone at colposcopy.
7. Describe the placental circulation and its clinical significance. (5+5)
8. Mifepristone-its use in Obstetrics and Gynaecology.
