

# 2019 Scheme

Q.P. Code: 214001

Reg. no.: .....

## Second Professional MBBS Degree Supplementary Examinations December 2025 Pathology - Paper II

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers
- Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

### 1. Multiple Choice Questions

(20x1=20)

The MCQ questions (Q.No. I to Q.No. xx) shall be answered only in the OMR sheet provided at page No. 51 of the answer book (the inner portion of the back cover page (PART III)). Responses for MCQs marked in any other part/page of the answer book will not be valued. For marking the correct responses use X mark only

#### Question Numbers (i) – (v) are Single Response Type

- Mac Callum patch is seen in the region of
  - Pericardial surface in the posterior wall of left atrium
  - Pericardial surface in the posterior wall of left ventricle
  - Endocardial surface in the posterior wall of left atrium
  - Endocardial surface in the posterior wall of left ventricle
- The neoplastic cells in a Giant Cell Tumour of bone (Osteoclastoma) are:
  - Osteoclastic giant cells
  - Fibroblastic cells
  - Mononuclear stromal cells
  - Sinusoidal lining cells
- CSF forms cobweb on standing in
  - Tuberculous meningitis
  - Fungal meningitis
  - Viral meningitis
  - Pyogenic meningitis
- A biopsy of the stomach reveals an area of normal - appearing pancreatic tissue. This is an example of
  - Choristoma
  - Teratoma
  - Hamartoma
  - Haemangioma
- Toxic megacolon is a known complication of
  - Crohn's disease
  - Typhoid ulcer
  - Ulcerative colitis
  - Tuberculosis of the intestine

#### Question numbers (vi)-(x) are multiple response type questions. Read the statements & mark the answers appropriately.

- The penile lesions which are considered in situ carcinoma are:
  - 1) Condyloma acuminata
  - 2) Erythroplasia of Queyrat
  - 3) Bowen's disease
  - 4) Bowenoid papulosis
  - a) 1, 2, 3
  - b) 2, 3, 4
  - c) 3, 4, 1
  - d) 1, 2, 4
- Nuclear features of papillary carcinoma thyroid are:
  - 1) Orphan Annie nucleus
  - 2) Nuclear grooves
  - 3) Psammoma bodies
  - 4) Ground-glass appearance
  - a) 1, 2, 3
  - b) 2, 3, 4
  - c) 3, 4, 1
  - d) 1, 2, 4
- Characteristic features of Schwannoma are:
  - 1) It is a nerve sheath tumour
  - 2) Verocay bodies
  - 3) It is locally invasive
  - 4) Hyaline collars around blood vessels
  - a) 1, 2, 3
  - b) 2, 3, 4
  - c) 3, 4, 1
  - d) 1, 2, 4
- Features of Giant cell tumour of bone include
  - 1) Age group is 10-20 years
  - 2) X ray shows soap bubble appearance
  - 3) Epiphyseal lytic lesion
  - 4) Benign tumour
  - a) 1, 2, 3
  - b) 2, 3, 4
  - c) 3, 4, 1
  - d) 1, 2, 4
- Components of MEN 2A syndrome are:
  - 1) Parathyroid hyperplasia
  - 2) Pituitary adenoma
  - 3) Medullary carcinoma thyroid
  - 4) Pheochromocytoma
  - a) 1, 2, 3
  - b) 2, 3, 4
  - c) 3, 4, 1
  - d) 1, 2, 4

(PTO)

Question numbers (xi) – (xv) consists of two Statements - Assertion (A) and Reason (R). Answer these questions by selecting the appropriate options given below.

- a) Both A & R are correct and R is the reason for A  
 b) Both A & R are correct, but R is not the reason for A  
 c) A is correct, R is incorrect  
 d) A is incorrect, R is correct

- xi. **Assertion:** Bacteria settle in the region of the diaphysis and makes it the site initially involved in hematogenous osteomyelitis  
**Reason:** The anatomic feature that allows organisms to settle is that the arteries become arterioles and finally form capillary loops in the region of the metaphysis.
- xii. **Assertion:** Patients with Kartagener's syndrome have the triad of bronchiectasis, recurrent sinusitis, and situs inversus.  
**Reason:** The respiratory problems associated with this syndrome are caused by abnormal motility of the cilia, which is due to abnormalities of the ATPase-containing dynein arms.
- xiii. **Assertion:** The troponin levels are elevated after myocardial infarction (MI).  
**Reason:** The levels begin to increase 14 to 16 h after the onset of chest pain, reach maximal serum concentration in about 2 to 4 days, and remain elevated for about 30 days, hence not useful for the diagnosis of MI.
- xiv. **Assertion:** Berry aneurysms are saccular aneurysms most commonly found in the circle of Willis.  
**Reason:** The cause is atherosclerosis.
- xv. **Assertion:** The classic triad of symptoms associated with insulinomas is called Whipple's triad and consists of hypoglycemia, symptoms of hypoglycemia, and relief of these symptoms with glucose intake.  
**Reason:** Insulinomas are tumors that originate from the alpha cells of the islets of Langerhan's in the pancreas resulting from the excess and uncontrolled secretion of insulin.

Question numbers (xvi) – (xx) Read the following case scenario and answer subsequent questions based on this

A 28-year-old man is evaluated for persistent cough, night sweats, low-grade fever, and general malaise. A chest X-ray reveals a cavitory lesion in the apex of the right upper lobe.

- xvi. This type of lesion is seen in  
 a) Primary tuberculosis  
 b) Secondary tuberculosis  
 c) Tertiary tuberculosis  
 d) Miliary Tuberculosis
- xvii. The type of necrosis seen is  
 a) Caseous necrosis  
 b) Colliquative necrosis  
 c) Coagulative necrosis  
 d) Liquefactive necrosis
- xviii. The presence of the bacilli in the sputum can be demonstrated by  
 a) Gram stain  
 b) Albert stain  
 c) Fite-Faraco  
 d) Ziehl-Neelsen stain
- xix. Examination of hilar lymph nodes would demonstrate which of the following pathological change  
 a) Fibrosis  
 b) Coagulative necrosis  
 c) Granulation tissue  
 d) Granulomatous inflammation
- xx. The immune response is in the form of  
 a) Antibody-mediated  
 b) Allergic reaction  
 c) Delayed hypersensitivity  
 d) Immune-complex mediated

**Long Essays**

(2x10=20)

2. A 12 year old boy presented to the OPD with periorbital swelling, pedal oedema, oliguria and hypertension. His mother gives history of the child having a sore throat 15 days earlier.

- a) What is the most likely diagnosis  
 b) Discuss the aetiopathogenesis of this condition  
 c) Describe the pathological findings in this disease

(1+3+6)

3. Discuss the aetiopathogenesis, morphology, clinical features and complications of peptic ulcer

(4+3+2+1)

(6x6=36)

**Short Essays**

4. Aetiopathogenesis and morphology of Hashimoto's thyroiditis
5. Aetiopathogenesis and morphology of alcoholic liver disease
6. Differences between ulcerative colitis and Crohn's disease
7. Classify ovarian tumours and discuss briefly about mature cystic teratoma
8. Hodgkin's lymphoma
9. Discuss the prognostic factors for carcinoma breast

(6x4=24)

**Short Answers**

10. Discuss informed consent for surgical procedures
11. Aetiopathogenesis of Prostatic hyperplasia
12. Morphology of Basal cell carcinoma
13. Aetiopathogenesis of carcinoma cervix
14. Retinoblastoma
15. Describe the types of Meningiomas

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