

SS/MBBS-II/PATHO-I/03-24

2024

(March)

PATHOLOGY

Paper-I

Full Marks: 100

Time: 3 hours

The figures in the margin indicate full marks for the questions Answer all questions

- 1. Define apoptosis. What are the morphologic features of apoptosis? Enumerate the difference between apoptosis and necrosis. 2+3+3=8
- 2. A 60-year-old female recently operated for abdominal hernia, attends the OPD with severe abdominal pain and reappearance of the swelling after an episode of severe coughing. Her vitals we re normal. 1+3+4=8
- (a) What is your probable diagnosis?
- (b) Describe the stages of wound healing.
- (c) Differentiate between healing by first intention and healing by second intention.
- 3. Write short notes on the following:

5×8=40

- (a) Cellular events of inflammation
- (b) Mechanism of cell injury
- (c) Hazards of blood transfusion
- (d) Intracellular accumulations
- (e) Classify Hodgkin's lymphoma.



- (f) "Tp53: Guardian of the genome." Elaborate.
- (g) Describe the diagnostic role of cytology and its application in clinical care.
- (h) Describe the role of justice as a guiding principle in patient care.

4. Answer in short: 2×9=18

- (a) Special stains to demonstrate amyloid
- (b) Tigered effect
- (c) Four indications of bone marrow aspiration
- (d) Define metaplasia and dysplasia.
- (e) Paradoxical emboli
- (f) Name two stains used to diagnose myeloid neoplasm.
- (g) Define granuloma.
- (h) Disorder caused by air pollution
- (i) H. pylori associated tumour
- 5. Define anaemia. Write the aetiopathogenic classification of anaemia. Enumerate the investigations in a case of megaloblastic anaemia. 2+3+3=8
- 6. A 54 year-old female presented in the OPD with backache and weakness. Radiological studies revealed bony lytic lesions over the vertebrae. Laboratory studies showed increased M protein in serum, elevated creatinine and calcium level. 1+4+3=8
- (a) What is your probable diagnosis?
- (b) Describe the pathogenesis of the condition.
- (c) Describe the peripheral blood and bone marrow picture.
- 7. Choose the correct answer:

1×10=10



- (i) Reticulocyte count is decreased in
- (a) iron-deficiency anaemia
- (b) aplastic anaemia
- (c) megaloblastic anaemia
- (d) haemolytic anaemia
- (ii) Bernard-Soulier syndrome is a defect in
- (a) platelet aggregation
- (b) platelet adhesion
- (c) platelet release reaction
- (d) platelet morphology
- (iii) Diabetic foot is an example of
- (a) gas gangrene
- (b) dry gangrene
- (c) wet gangrene
- (d) necrotizing inflammation
- (iv) Cerebral plaques in Alzheimer's disease consist of
- (a) ATTR protein
- (b) Aβ₂μ protein
- (c) Aβ protein
- (d) prion protein
- (v) Haemophilia is
- (a) X-linked recessive



- (b) autosomal dominant
- (c) autosomal recessive
- (d) X-linked dominant
- (vi) Bitot's spot is found in deficiency of
- (a) vitamin D
- (b) vitamin K
- (c) vitamin A
- (d) vitamin E
- (vii) Formation of granuloma is
- (a) type I hypersensitivity reaction
- (b) type II hypersensitivity reaction
- (c) type III hypersensitivity reaction
- WW. First Ranker Com (d) type IV hypersensitivity reaction
- (viii) Hepar lobatum is seen in
- (a) primary syphilis
- (b) secondary syphilis
- (c) tertiary syphilis
- (d) congenital syphilis
- (ix) In iron-deficiency anaemia, TIBC is
- (a) low
- (b) normal
- (c) high



- (d) borderline
- x) Pappenheimer bodies represent
- (a) DNA
- (b) RNA
- (c) non-haem iron
- (d) mitochondria

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