

QP CODE : 1026

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – II (CBME) Degree Examination - 05-May-2022

Time: Three Hours**Max. Marks: 100 Marks****PATHOLOGY – PAPER I (RS-4)****Q.P. CODE: 1026****(QP contains two pages)**

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS**2 x 10 = 20 Marks**

- 32 year male sustained fracture of femur due to an accident. Two days later he developed sudden tachypnea, tachycardia and died on 7th day.
 - What is the diagnosis?
 - Pathogenesis of the lesion
 - How frozen sections would help in the diagnosis?
- 49 year old male presented with an ulcerated pigmented nodule on the foot with an inguinal mass.
 - What is your probable diagnosis?
 - Describe the mechanism of metastasis
 - Discuss the routes of spread of tumor

SHORT ESSAYS**8 x 5 = 40 Marks**

- Chemical mediators of acute inflammation.
- Define necrosis and write morphological features of various types of necrosis.
- Pathological calcification.
- Transfusion reactions.
- Hereditary spherocytosis.
- Discuss phagocytosis.
- Peripheral blood and bone marrow findings in megaloblastic anemia.
- Factors affecting wound healing.

SHORT ANSWERS**10 x 3 = 30 Marks**

- Ghon's complex.
- Autophagy with examples.
- List three examples for type I hypersensitivity.
- Exfoliative cytology.
- Rhinosporidiosis.
- Urinary casts.
- Lardaceous spleen.
- Write three relevant laboratory investigations for sickle cell anemia.
- CSF findings in tubercular meningitis.
- Packed cell volume.

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Multiple Choice Questions**10 x 1 = 10 Marks**

- 21 i) Free radicals are all **EXCEPT**
- A. Superoxide
 - B. Hydrogen peroxide
 - C. Hydroxyl
 - D. Calcium

Key Answer : D. Calcium

- 21 ii) All are pigments stainable by Prussian blue **EXCEPT**
- A. Hemosiderin
 - B. Haematin
 - C. Ferritin
 - D. Melanin

Key Answer : D. Melanin

- 21 iii) In Alzheimer's disease cerebral plaque consists of
- A. ATTR protein
 - B. A β 2M protein
 - C. A β protein
 - D. Prion protein

Key Answer : C. A β protein

- 21 iv) Grave's disease is an example for
- A. Type I hypersensitivity reaction
 - B. Type II hypersensitivity reaction
 - C. Type III hypersensitivity reaction
 - D. Type IV hypersensitivity reaction

Key Answer : B. Type II hypersensitivity reaction

- 21 v) Fungi can be identified by following stains **EXCEPT**
- A. Silver stain
 - B. Giemsa stain
 - C. Periodic acid Schiff stain
 - D. Mucicarmine stain

Key Answer : B. Giemsa stain

- 22 i) In iron deficiency anemia Total Iron Binding Capacity (TIBC) is
- A. Low
 - B. High
 - C. Normal
 - D. Borderline

Key Answer : B. High

- 22 ii) Aplastic anemia is generally characterized by
- A. Relative neutrophilia
 - B. Relative Lymphocytosis
 - C. Reticulocytopenia

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D. Reticulocytosis

Key Answer : C. Reticulocytopenia

- 22 iii) Hemophilia A shows
- A. Factor VIII deficiency
 - B. Factor VI deficiency
 - C. Factor IX deficiency
 - D. Factor X deficiency

Key Answer : A. Factor VIII deficiency

- 22 iv) Leucocyte Alkaline Phosphatase (LAP) is elevated in
- A. AML
 - B. CML
 - C. Myeloid sarcoma
 - D. Myeloid Leukemoid reaction

Key Answer : D. Myeloid Leukemoid reaction

- 22 v) Specific marker for Hairy cell Leukemia is
- A. CD 22
 - B. CD 103
 - C. CD 5
 - D. CD 8

Key Answer : B. CD 103
