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**

1. 32 year male sustained fracture of femur due to an accident. Two days later he developed sudden tachypnea, tachycardia and died on 7th day.

    a) What is the diagnosis?
    b) Pathogenesis of the lesion
    c) How frozen sections would help in the diagnosis?

2. 49 year old male presented with an ulcerated pigmented nodule on the foot with an inguinal mass.

    a) What is your probable diagnosis?
    b) Describe the mechanism of metastasis
    c) Discuss the routes of spread of tumor

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

3. Chemical mediators of acute inflammation.

4. Define necrosis and write morphological features of various types of necrosis.

5. Pathological calcification.

6. Transfusion reactions.

7. Hereditary spherocytosis.

8. Discuss phagocytosis.

9. Peripheral blood and bone marrow findings in megaloblastic anemia.

10. Factors affecting wound healing.

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

11. Ghon's complex.

12. Autophagy with examples.

13. List three examples for type I hypersensitivity.

14. Exfoliative cytology.

15. Rhinosporidosis.

16. Urinary casts.

17. Lardaceous spleen.

18. Write three relevant laboratory investigations for sickle cell anemia.

19. CSF findings in tubercular meningitis.

20. 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. $A\beta2M$ protein
     C. $A\beta$ protein
     D. Prion protein

     Key Answer : C. $A\beta$ 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

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