

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – II (CBME) Degree Examination - 16-May-2023

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**

- 60 year old male presented with complaints of pedal edema and exertional **dyspnoea**. On investigation his Hemoglobin was 3.5 g/dl and he had raised brain natriuretic peptide. Blood pressure was 90/50 mm of Hg and heart rate was 60 bpm. He is not a diabetic or hypertensive. He was diagnosed with congestive heart failure.
 - List the types of edema
 - Identify the type of edema in the above clinical history
 - Describe the pathophysiology, clinical features and consequences of this condition
- 30 year old male on pure vegetarian diet presents with **restlessness**, fatigue, dizziness, tingling and numbness in his legs. On routine blood evaluation his hemoglobin was found to be 7gms/dl and MCV of 110 fl. Patient was also found to have reticulocytopenia
 - What is the most probable diagnosis?
 - Describe the etiology, pathogenesis, peripheral smear and bone **marrow** findings of Megaloblastic anemia.

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

- Differences between necrosis and apoptosis.
- Vascular changes in Acute inflammation.
- Chemical Carcinogenesis.
- Discuss different methods of blood grouping.
- Chronic **Myeloid** Leukaemia.
- Thalassemia major.
- Discuss various stains for amyloid.
- Classification of Hodgkin's lymphoma.

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

- Metaplasia.
- Arthus reaction.
- Ghon's complex.
- Tuberculoid leprosy.
- Exfoliative cytology.
- Define chemotaxis. Name two chemotactic agents
- Stages of E.S.R
- Auer rods.
- Fate of thrombus
- Causes of proteinuria.

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

- 21 i) Vasoactive amines play an important role in vascular events of inflammation. Histamine causes all **EXCEPT**
- A. Smooth muscle contraction
 - B. Decreased vascular permeability
 - C. Increased permeability
 - D. Increased secretions
- 21 ii) Which of the following is an example for labile cells
- A. Bone marrow
 - B. Hepatocytes
 - C. Neurons
 - D. Fibroblasts
- 21 iii) Caspases are involved in
- A. Acute inflammation
 - B. Chronic inflammation
 - C. Apoptosis
 - D. Regeneration
- 21 iv) 24 year old male sustains multiple fractures of long bone in a road traffic accident. Which of the following stains is used to detect fat embolism
- A. Oil-red-O
 - B. Best carmine
 - C. PAS
 - D. Von Kossa
- 21 v) Starry sky appearances is seen in
- A. Large cell lymphoma
 - B. Hodgkin's lymphoma
 - C. Burkitt lymphoma
 - D. T - cell lymphoma
- 22 i) ESR is increased markedly in
- A. Dengue fever
 - B. Tuberculosis
 - C. Malaria
 - D. Typhoid
- 22 ii) Pernicious anemia is due to
- A. Iron deficiency
 - B. Intrinsic factory deficiency
 - C. Sickling of RBCs
 - D. Red cell membrane deficiency
- 22 iii) Peripheral smear is reported as poikilocytosis in a patient with long standing anemia. Poikilocytosis refers to
- A. Different shapes of RBCs
 - B. Different sizes of RBCs
 - C. Inclusions in RBCs
 - D. Increase in RBCs
- 22 iv) Hemophilia is a
- A. B12 deficiency anemia
 - B. Type of leukemia
 - C. Hemolytic anemia
 - D. Bleeding disorder
- 22 v) Gamna Gandy bodies are seen in
- A. Spleen
 - B. Liver
 - C. Oral cavity
 - D. RBCs
