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MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2017

SUBJECT: PATHOLOGY – PAPER I (ESSAY)

Tuesday, May 02, 2017

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **All questions are compulsory.**

✍ **Illustrate your answers with diagrams, flow charts, tables etc. wherever required.**

1. Define acute inflammation. Describe the cardinal signs of acute inflammation. Using suitable illustrations, describe the cellular events of acute inflammation.

(2+2+6 = 10 marks)

2. A 6 year old male child presented to the pediatric unit with one week history of fever, fatigue and vague bone pains. On examination, the axillary and mediastinal lymph nodes were significantly enlarged. Mild hepatosplenomegaly was also present. The laboratory investigations revealed the following: hemoglobin-7.2g/dl, total leucocyte count- 45×10^3 /cu.mm and platelets- 23×10^3 /cu.mm. The peripheral smear showed abnormal cells.

2A. What is your diagnosis in this case?

2B. Enumerate the WHO classification of this condition.

2C. Describe the additional laboratory investigations useful in the diagnosis of this condition.

2D. Add a note on the prognostic factors.

(1+2+4+3 = 10 marks)

3. **Write short notes on:**

3A. Reed-Sternberg cell and its variants

3B. Laboratory diagnosis of megaloblastic anemia

3C. Hemolytic disease of the newborn

3D. Genetics, clinical and laboratory features of Hemophilia A

3E. Mechanism of basement membrane invasion by tumour cells

3F. Morphology of apoptosis

3G. Dystrophic calcification

3H. Factors influencing wound healing

3I. Granulation tissue

3J. Caisson disease

3K. Turner syndrome

3L. Gaucher disease

3M. Steps in initiation of cell by chemical carcinogen

3N. Tests for demonstration of amyloid

3O. Pathogenesis of type III hypersensitivity reaction

(4 marks \times 15 = 60 marks)



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MANIPAL UNIVERSITY
SECOND MBBS DEGREE EXAMINATION – MAY 2017
SUBJECT: PATHOLOGY - PAPER II (ESSAY)

Wednesday, May 03, 2017

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

✍ **Illustrate your answers with diagrams wherever necessary.**

1. List the germ cell tumors of the ovary. Discuss the histogenesis and interrelationship of these tumors. Which is the commonest tumor in this category? Describe its gross and microscopic features.

(2+2+1+5 = 10 marks)

2. A 55-year-old man presented with severe chest pain radiating to the left upper limb, profuse sweating and breathlessness. On examination the patient had a rapid weak pulse. He was shifted to the intensive care unit. Relevant investigations were done and medical management of his condition was initiated. His general condition stabilised and he progressively improved.

2A. What is the diagnosis in this case?

2B. What are the relevant tests required to diagnose this condition?

2C. Discuss the evolution of morphological changes in this condition.

2D. List the complications of this condition.

(1+4+4+1 = 10 marks)

3. **Write short notes on:**

3A. Enumerate the salient prognostic factors in breast carcinoma

3B. Morphology of giant cell tumor of bone

3C. Pathogenesis of Grave's disease

3D. Morphology of rodent ulcer

3E. Differential diagnoses and salient differentiating features of granular contracted kidney

3F. Pathogenesis of asbestosis related lung diseases

3G. Morphology of meningioma

3H. Differences in the CSF findings between pyogenic and tuberculous meningitis

3I. Morphology of advanced gastric carcinoma

3J. Causes and morphological differences of cardiac vegetations

3K. Morphology and complication of aortic aneurysm

3L. Pathogenesis of pigment stones of the gall bladder

3M. Potential outcomes of Hepatitis B infection

3N. "Rule of 10's" related to pheochromocytoma

3O. Microscopic features of cervical intraepithelial neoplasia

(4 marks × 15 = 60 marks)

