

M.D. Examination

Pathology : Branch II

Paper-I

(Applied Basic Science)

[Max. Marks : 100]

Date : 02-04-2019, Tuesday]

Time : 3 Hours]

- Instructions :** (1) Figure to the right indicates marks.
(2) Write legibly and to the point.
(3) Draw diagrams wherever necessary.

- Q.1. Describe Pathophysiology of Autoimmune diseases. (20)
- Q.2. Discuss briefly (10)
- a) Protein misfolding diseases. (10)
- b) Role of obesity in cancer. (20)
- Q.3. Describe the signaling mechanism in cell growth. (10)
- Q.4. Discuss briefly (10)
- a) Radiation injury. (10)
- b) Pathogenesis of Septic shock. (10)
- Q.5. Discuss briefly (10)
- a) Molecular classification of Breast cancer and its role in patient management. (10)
- b) Tissue Microarray. (10)
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M.D. Examination
Pathology : Branch II
Paper II
(Systemic Pathology)

[Max. Marks : 100

Date : 04-04-2019, Thursday]
Time : 3 Hours]

- Instructions :** (1) Figure to the right indicates marks.
(2) Write legibly and to the point.
(3) Draw diagrams wherever necessary.

- Q.1. Classify Ovarian Tumours and describe histopathological diagnostic criteria and molecular pathology of ovarian surface epithelial tumours. (20)
- Q.2. Discuss briefly (10)
- a. Giant cell rich tumours of bone. (10)
 - b. Role of immunohistochemistry in differential diagnosis of small round cell tumours. (10)
- Q.3. Describe the etiopathogenesis and morphology of rapidly progressive glomerulonephritis. (20)
- Q.4. Discuss briefly (10)
- a. Premalignant lesions in lung. (10)
 - b. Eosinophilic enteritis. (10)
- Q.5. Discuss briefly (10)
- a. Non-infectious Vasculitis. (10)
 - b. Granulomatous hepatitis. (10)
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Candidate's Seat No : _____

M.D. Examination

Pathology : Branch II

Paper III

(Clinical Pathology, Haematology & Cytology)

[Max. Marks : 100]

Date : 08-04-2019, Monday]

Time : 3 Hours]

- Instructions :** (1) Figure to the right indicates marks.
(2) Write legibly and to the point.
(3) Draw diagrams wherever necessary.

- Q1. Classify Acute Leukemias. Describe prognostic factors and detection of minimal residual disease in Acute Lymphoblastic Leukemia. (20)
- Q2. Discuss briefly (10)
a. Qualitative defects of Platelets and their diagnosis. (10)
b. Secondary autoimmune hemolytic anemia.
- Q3. Discuss the Milan system of reporting cytology of salivary gland tumours and describe cytomorphology of common salivary gland tumours on fine needle aspiration cytology. (20)
- Q4. Discuss briefly (10)
a. Algorithm to use of Blood component therapy in bleeding disorders. (10)
b. Microalbuminuria and its detection.
- Q5. Discuss briefly (10)
a. Westgard rules in Quality Assurance
b. Differential diagnosis of adenocarcinoma versus reactive mesothelial cells in effusions. (10)
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M.D. Examination
Pathology : Branch II

Paper IV
(Modern Trends & Recent Advances)

[Max. Marks : 100]

Date : 10-04-2019, Wednesday]

Time : 3 Hours]

- Instructions :** (1) Figure to the right indicates marks.
(2) Write legibly and to the point.
(3) Draw diagrams wherever necessary.

- Q.1. Discuss the molecular basis of Renal Cell Carcinoma and its subtypes. (20)
- Q.2. Discuss briefly (10)
- a. Proteomics in diagnostic pathology. (10)
 - b. Laser capture microdissection. (10)
- Q.3. Describe mechanism of transformation of stem cell like properties of cancer cells and briefly discuss targeted therapy in cancer. (20)
- Q.4. Discuss briefly (10)
- a. Current diagnostic criteria of metabolic syndrome. (10)
 - b. Recent updates on point of care testing. (10)
- Q.5. Discuss briefly (10)
- a. IgG4 related disorders. (10)
 - b. Gene editing. (10)
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