Paper ID- 131

POST GRADUATE EXAMINATION, APRIL - 2019

MD PATHOLOGY

(PAPER ONE)

GENERAL & APPLIED PATHOLOGY

[Time allotted: Three hours] **[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Define carcinogenesis and discuss chemical and viral carcinogenesis. **(20)**

Q. 2. Define shock and discuss pathophysiology and lab investigations of septic shock. **(20)**

Q. 3. **Describe briefly:** **(3 x 10 = 30)**

a. Metastasis

b. Cellular events in acute inflammation

c. Cellular adaptations

Q. 4. **Write short notes on:** **(5 x 6 = 30)**

a. Methods of decalcification

b. Immune tolerance

c. Morphometry

d. FISH (Fluorescent in situ hybridization)

e. Principles of electron microscopy.

X

Paper ID- 132

POST GRADUATE EXAMINATION, APRIL - 2019

MD PATHOLOGY

(PAPER TWO)

SYSTEMIC PATHOLOGY, CLINICAL BIOCHEMISTRY & CLINICAL MICROBIOLOGY

[Time allotted: Three hours] **[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss in detail the differential diagnosis of small round cell malignant tumor. **(20)**

Q. 2. What are various hepatotropic viruses? Discuss in detail about serological markers and morphological changes in hepatitis B. **(20)**

Q. 3. **Describe briefly:** **(3 x 10 = 30)**

a. Pathogenesis of anorectal adenocarcinoma

b. Prognostic markers in carcinoma breast

c. Rapidly progressive glomerulonephritis

Q. 4. **Write short notes on:** **(5 x 6 = 30)**

a. Premalignant lesions of skin

b. RS cell

c. Trophoblastic tumors

d. Diabetic nephropathy

e. ANCA associated vasculitis

X

Paper ID- 133

POST GRADUATE EXAMINATION, APRIL - 2019

MD PATHOLOGY

(PAPER THREE)

HAEMATOLOGY, CYTOLOGY, BLOOD BANKING AND CLINICAL PATHOLOGY

[Time allotted: Three hours] **[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe the pathogenesis and laboratory diagnosis of multiple myeloma. Briefly outline the prognostic factors. **(20)**

Q. 2. Discuss in detail the approach to screening of a patient with bleeding disorder. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

a. Interpretation of bone marrow aspirate

b. Imprint cytology – its significance and limitations

c. Blood component separation and its utility

Q. 4. Write short notes on: **(5 x 6 = 30)**

a. Plasmapheresis

b. Thalassemia screening

c. Glycosylated haemoglobin

d. Sideroblastic anaemia

e. IQC and EQAS in haematology

X

Paper ID- 134

POST GRADUATE EXAMINATION, APRIL - 2019

MD PATHOLOGY

(PAPER FOUR)

RECENT ADVANCES & THEIR CLINICAL APPLICATIONS

[Time allotted: Three hours] **[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe in detail principle technique and clinical application of flow cytometry. **(20)**

Q. 2. Discuss H. pylori and diseases associated with it. **(20)**

Q. 3. **Describe briefly:** **(3 x 10 = 30)**

a. Muscle biopsy

b. Diagnosis of malabsorption

c. Tumor markers of cancer of prostate

Q. 4. **Write short notes on:** **(5 x 6 = 30)**

a. NAT testing in blood banking

b. Tumor cachexia

c. Stem cells

d. Gene mapping

e. Pathogenesis of carcinoma of colon

X