## The West Bengal University of Health Sciences MBBS 2nd Professional Examination (New Regulation) March - April 2024

Subject: Pathology Paper: II

Full Marks: 100 Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks.

- 1.a) A 59 year old male presented with weight loss, painless hematuria, flank pain and a large mass in lower abdomen.
  - i) What is your provisional diagnosis?
  - ii) How will you proceed to investigate the patient in the laboratory?
  - iii) Describe the gross and microscopic features of the lesion.
  - b) A 45 year old male was brought to the hospital with complain of uneasiness and squeezing type of pain in chest radiating to left arm. His ECG showed ST elevation and T inversion in lead V3, V4.
    - i) What is the provisional diagnosis?
    - ii) Discuss the pathogenesis of this condition.
    - iii) What laboratory investigations are to be done to confirm the diagnosis?
    - iv) Mention the complications of this condition.

Answer the following:

- a) Classify Hodgkin's disease. Describe the microscopic feature of the mixed cellularity type. Describe the features of diagnostic cell present in Hodgkin's disease. 3+3+4
- 10 b) Briefly discuss the pathogenesis of cirrhosis of liver. 10
- Describe the pathogenesis of acute (pyogenic) osteomyelitis.

2x5

- 3. Write short notes on:
  - a) Retinoblastoma.
  - b) Prognostic factors for invasive breast carcinoma.
- Explain the following statements:

5x4

- a) Bronchiectasis results from a defect in airway clearance.
- b) The most important prognostic factor in colorectal adenocarcinoma are depth of invasion and the presence of lymph node metastases.
- e) Pigment gallstones are seen in chronic haemolytic anaemia.
- d) FNAC cannot replace histological study.
- e) Dysgerminoma is the ovarian counterpart of testicular seminoma.
- Choose the correct option for each of the following:

10×1

- (i) Following are associated with EB virus infection except:
  - a) Infectious mononucleosis.
- b) Epidermodysplasia verruciformis.
- b) Nasopharyngeal carcinoma.
- c) Oral hairy leucoplakia.
- (ii) Most common gene involved in familial male breast cancer:
  - a) BRCA-1.

b) BRCA-2.

c) P53.

d) INK-2.

- (iii) Bronchial asthma is predominantly mediated by:
  - a) T<sub>H</sub>2 lymphocytes and IgE.
  - b) T<sub>H</sub>1 lymphocytes and IgE.
  - c) Regulator T lymphocytes and IgE.
  - d) Cytotoxic T lymphocytes and IgE.
- (iv) MaCallum patch is seen in:
  - a) Myocardial infarction.
  - b) Atherosclerosis.
  - c) Rheumatic heart disease.
  - d) SLE.
  - (v) All are features of alcoholic steatohepatitis except;
    - a) Hepatocyte swelling and necrosis.
    - b) Ground glass hepatocytes.
    - c) Mallory-Denk bodies.
    - d) Neutrophilic infiltration.
  - (vi) Renal papillary necrosis is seen in:
    - a) Urinary tract obstruction.
    - b) Sickle cell disease.
    - c) Diabetes mellitus.
    - d) All of the above.
    - (vii) Codman triangle is a radiological finding in:
      - a) Chondrosarcoma.
      - b) Giant cell tumor.
      - c) Ewing sarcoma.
      - d) Osteosarcoma.
    - (viii) Charcot Leyden crystals and Cruschmann's spirals are seen in:
      - a) Bronchial asthma.
      - b) Chronic bronchitis.
      - c) Bronchiectasis.
      - d) Emphysema.
      - (ix) All of the following are germ cell tumours except:
        - a) Mesonephroid tumors

b) Teratoma.

- b) Dysgerminoma.
- d) Endodermal sinus tumour.
- (x) All are sex cord stromal tumor except:
  - a) Granulosa cell tumor.
  - b) Sertoil leydig cell tumor.
  - c) Embryonal carcinoma.
  - d) Fibroma thecoma of ovary.