

2021

Time :As in Programme

Full Marks : 40

The figures in the right-hand margin indicate marks.

*Answer **all** questions.*

- i. The most reliable feature of a malignant tumour is:
 - i. Rapid growth
 - ii. Metastasis
 - iii. Anaplasia
 - iv. Local invasion

- j. Malignant tumour which usually metastarize is:
 - i. Liposarcoma
 - ii. Basal cell carcinoma
 - iii. Gastric Carcinoma
 - iv. Melanoma



- 1. Write short notes on the following: 5x3=15
 - a. Describe the Pathogenesis of thrombosis.
 - b. Autopomal dominant disorders
 - c. Type IV Hypersensitivity

- 2. Write short notes on the following: 3x5=15
 - a. Coagulative necrosis
 - b. Klinefelter syndrome
 - c. Transudate and Exudate
 - d. Amyloid proteins
 - e. Oncogenic DNA viruses

- 3. Write definition of the following: 1x5=5
 - a. Oedema
 - b. Atrophy
 - c. Granuloma
 - d. Paraneoplastic syndromes
 - e. Choristoma

4. Write the most appropriate answer of the following:

$$0.5 \times 10 = 5$$

- a. Exudation of plasma and leucocytes in acute inflammation is from:
 - i. Capillaries
 - ii. Arterioles and capillaries
 - iii. Arterioles
 - iv. Post-capillary venules
- b. MHC gene is mapped in:
 - i. Long-arm of Chromosome-4
 - ii. Short-arm of Chromosome-4
 - iii. Long-arm of Chromosome-8
 - iv. Short-arm of Chromosome-6
- c. Decompression sickness develops due to the effect of:
 - i. Oxygen
 - ii. Carbon dioxide
 - iii. Nitrogen
 - iv. Carbon-monoxide
- d. Most common site of arteriolar embolization is:
 - i. Brain
 - ii. Lower extremities
 - iii. Intestines
 - iv. Kidneys

(2)

Contd.

- e. After original incision, 70-80% of tensile strength of unwounded skin is attained by:
 - i. 4 wks
 - ii. 8 wks
 - iii. 12 wks
 - iv. 16 wks
- f. The critical 'gate-keeper gene' against formation of cancer is:
 - i. WT-I gene
 - ii. RB gene
 - iii. NF-2 gene
 - iv. P-53 gene
- g. Dystrophic calcification is seen in:
 - i. Rickets
 - ii. Hyperparathyroidism
 - iii. Atheromatous plaque
 - iv. Vit-A intoxication
- h. Amount of air required to produce air embolism is:
 - i. >20 ml
 - ii. >100 ml
 - iii. >80 ml
 - iv. >50 ml

(3)

(Turn Over)