

Total number of printed pages-4

34 (2) MICR & PATH

2020

MICROBIOLOGY AND PATHOLOGY

Full Marks : 40+40=80

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

(Microbiology)

1. Answer the following questions: 2×5=10
 - (a) Define parasite and their types. Give examples.
 - (b) What are the different routes of infection? Name them with examples.
 - (c) Write *two* properties of antigen-antibody reaction.
 - (d) Write about Poliomyelitis.
 - (e) Write about the general properties of Fungi.

Contd.

2. Answer **any four** of the following : $5 \times 4 = 20$

- (a) Discuss pathogenicity of Staphylococcus aureus.
- (b) What are antimicrobials and their modes of action? Name some examples of the antimicrobials.
- (c) Discuss mode of transmission and pathogenicity of Tuberculosis.
- (d) Write about Cell-mediated immunity and its role in immunity.
- (e) What is hypersensitivity? Write about the mechanism of Type I hypersensitivity.
- (f) What are mycoses? Classify mycoses with a short note for each type.

3. Answer only **one** from the following : $10 \times 1 = 10$

- (a) What is HIV Infection? Describe the mechanism, mode of transmission and laboratory diagnosis.

Or

- (b) Discuss lymphoid organs and tissues. Write about the different types of Antigen-Antibody Reactions.

(Pathology)

Answer **any one** out of **two** : $10 \times 1 = 10$

- 1. Define and classify cirrhosis. Discuss the pathogenesis and morphology of alcoholic cirrhosis.

Or

- 2. Define and classify shock. Describe the etiology, pathogenesis and morphological changes in various organs in shock.

3. Answer **any four** out of **five** : $5 \times 4 = 20$

- (a) Describe the pathology and complications of rheumatic heart disease.
- (b) Describe healing by first intention. Mention complications of wound healing.
- (c) Name *four* metastatic tumors in liver.
- (d) Primary tuberculosis (Ghon complex) and its fate.

4. Answer **all** questions : $2 \times 5 = 10$

- (a) Apoptosis
- (b) Aschoff bodies (Aschoff nodules)



- (c) Carcinoma *in situ*
- (d) Clinical consequences of thrombi
- (e) Fatty liver.
