

# Question Paper

Exam Date & Time: 10-Feb-2024 (10:00 AM - 12:30 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BSc. HEALTH SCIENCE DEGREE EXAMINATION - FEBRUARY 2024  
SUBJECT: BHS - 305- PATHOLOGY & MICROBIOLOGY

Marks: 40

Duration: 120 mins.

### PART A-'PATHOLOGY'

Answer all the questions.

1) Answer the following in short

- |     |  |     |
|-----|--|-----|
| 1A) | List ANY FOUR causes for immune thrombocytopenic purpura | (2) |
| 1B) | List 4 types of shock                                    | (2) |
| 1C) | Classify leprosy   | (2) |

2) Answer the following in brief:

- |     |  |     |
|-----|--|-----|
| 2A) | Describe the peripheral blood and bone marrow findings in megaloblastic anaemia. | (3) |
| 2B) | With a neat labelled diagram, describe the components of a granuloma             | (3) |
| 2C) | Describe ANY THREE types of cell necrosis with suitable examples.                | (3) |

Answer the following

- |    |  |     |
|----|--|-----|
| 3) | Define neoplasia. Describe the cascade of tumour metastasis. List any 2 routes of tumour metastasis<br>(1+2+2 = 5 marks) | (5) |
|----|--|-----|

### PART B-'MICROBIOLOGY'

Answer ALL questions.

4) Answer the following in short

- |     |   |     |
|-----|---|-----|
| 4A) | Enumerate the functions of IgM                                | (2) |
| 4B) | Explain the characteristic features of Streptococcus pyogenes | (2) |
| 4C) | Describe the morphology of Sporothrix schenckii               | (2) |

5) Answer the following in brief

- |     |   |     |
|-----|---|-----|
| 5A) | Classify leprosy based on immune response | (3) |
|-----|---|-----|

- 5B) Describe the laboratory diagnosis of gas gangrene (3)
- 5C) Describe the laboratory diagnosis of Haemophilus influenzae infection (3)

Answer the following

- 6) Explain the general properties of VZV. Explain the transmission, clinical features and complications of infection caused by it. (5)

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