

# Question Paper

Exam Date & Time: 08-Aug-2024 (10:00 AM - 12:30 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BSc. HEALTH SCIENCES DEGREE EXAMINATION - AUGUST 2024  
SUBJECT: BHS-305 PATHOLOGY AND MICROBIOLOGY  
(SPECIAL EXAM)

Marks: 60

Duration: 150 mins.

### PART A - PATHOLOGY (20 MARKS)

Answer all the questions.

Answer the following in short:

- 1A) List ANY 4 causes for immune thrombocytopenic purpura. (2)
- 1B) List 4 types of embolism. (2)
- 1C) List 4 clinical features of Downs syndrome. (2)

Answer the following in brief:

- 2A) Describe the process of fracture healing. (3)
- 2B) Describe the pathogenesis of septic shock. (3)
- 2C) Describe ANY 3 types of cell necrosis with suitable examples. (3)

Answer the following:

- 3) Define neoplasia. In a tabular column, compare and contrast between benign and malignant tumours. (5)  
(1+4 = 5 marks)

### PART B - MICROBIOLOGY (20 MARKS)

Answer all the questions.

Answer the following in short:

- 4A) Classify immunity. (2)
- 4B) Describe the properties of *Cryptococcus neoformans*. (2)
- 4C) List FOUR common hospital acquired infections. (2)

**Answer the following in brief:**

- 5A) Explain classical pathway of complement activation. (3)
- 5B) Describe the transmission and laboratory diagnosis of *Ancylostoma duodenale* infection. (3)
- 5C) Explain the pathogenesis of dengue. (3)

**Answer the following:**

- 6) Explain the transmission, clinical manifestations and laboratory diagnosis of leptospirosis. (5)  
(1+1+3 = 5 marks)

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