

MANIPAL ACADEMY OF HIGHER EDUCATION  
SECOND BDS DEGREE EXAMINATION – DECEMBER 2019  
SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)

Monday, December 02, 2019

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

- ✍ Answer all the questions. Answer section A & B in TWO separate answer books.  
✍ Write brief, clear, relevant and legible answers. Illustrate your answers with diagrams, flow charts wherever appropriate.

**SECTION "A": GENERAL PATHOLOGY (30 MARKS)**

1. Define anemia. List the causes of iron deficiency anemia. Describe the laboratory diagnosis of iron deficiency anemia.  
(2+3+5 = 10 marks)
2. Write short notes on:
  - 2A. Morphology of pleomorphic adenoma
  - 2B. Steps of fracture healing
  - 2C. Features of tetralogy of Fallot
  - 2D. Definition and types of emboli
  - 2E. Role of chemicals in carcinogenesis(4 marks × 5 = 20 marks)

**SECTION "B": MICROBIOLOGY (30 MARKS)**

1. Enumerate the causative agents of viral hepatitis. Describe in detail laboratory diagnosis and prophylaxis of Hepatitis B viral infection.  
(2+5+3 = 10 marks)
2. Write short notes on:
  - 2A. Acquired immunity
  - 2B. Oral Candidiasis
  - 2C. Laboratory diagnosis of pulmonary tuberculosis
  - 2D. Enumerate four chemical disinfectants and their uses
  - 2E. Life cycle of *Plasmodium falciparum*(4 marks × 5 = 20 marks)

