

**MANIPAL UNIVERSITY****SECOND BDS DEGREE EXAMINATION – MAY 2009****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)**

Friday, May 22, 2009

Time: 14.30 – 17.00 Hrs.

Maximum Marks: 80

- ✍ 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: 40 MARKS**

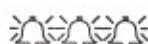
1. Define necrosis. Mention the different types of necrosis. Discuss the morphology of any one type.  
(2+8 = 10 marks)
2. **Write short notes on:**
  - 2A. Type IV hypersensitivity reaction.
  - 2B. Fate of a thrombus.
  - 2C. Healing by first intention.
  - 2D. List the opportunistic infections in HIV patients.
  - 2E. Differences between benign and malignant tumors.
  - 2F. Laboratory diagnosis of Hemophilia A.

(5×6 = 30 marks)

**SECTION "B": MICROBIOLOGY: 40 MARKS**

3. List the antigen and antibody reactions. Give the principle of precipitation reaction and its applications.  
(3+3+4 = 10 marks)
4. **Write short notes on:**
  - 4A. Bacterial filters
  - 4B. BCG
  - 4C. Coagulase test
  - 4D. Life cycle of Entamoeba histolytica
  - 4E. Herpes simplex virus
  - 4F. Robert Koch

(5×6 = 30 marks)



**MANIPAL UNIVERSITY****SECOND BDS DEGREE EXAMINATION – NOV/DEC 2009****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)**

Monday, November 30, 2009

Time: 14.30 – 17.00 Hrs.

Maximum Marks: 80

- ✍ 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: 40 MARKS**

1. Define and classify shock. Discuss the pathogenesis of any one type. (2+3+5 = 10 marks)
2. **Write short notes on:**
  - 2A. Gross and microscopic appearances of Osteoclastoma.
  - 2B. Definition and classification of leukemia.
  - 2C. Phagocytosis.
  - 2D. Morphology of liver in steatosis (fatty change) including special stain for fat.
  - 2E. Sites, gross and microscopy of primary complex.
  - 2F. Pathways of spread of malignant tumor with suitable examples.(5×6 = 30 marks)

**SECTION "B": MICROBIOLOGY: 40 MARKS**

3. Describe the pathogenesis and laboratory diagnosis of tuberculosis. (4+6 = 10 marks)
4. **Write short notes on:**
  - 4A. Robert Koch
  - 4B. Type IV hypersensitivity
  - 4C. Bacterial capsule
  - 4D. Morphology of Entamoeba histolytica
  - 4E. Oral microbial flora
  - 4F. MMR vaccine(5×6 = 30 marks)

