

**MANIPAL UNIVERSITY****SECOND BDS DEGREE EXAMINATION – NOVEMBER 2012****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)  
(NEW REGULATION)**

Friday, November 23, 2012

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

- ✍ 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. Describe the mechanism of wound healing by primary intention. Mention the factors influencing healing process and list the complications.

(4+4+2 = 10 marks)

**2. Write short notes on:**

- 2A. Pleomorphic adenoma.
- 2B. Morphology of atherosclerotic plaque.
- 2C. Metaplasia.
- 2D. Laboratory tests of iron deficiency anemia.
- 2E. Describe the morphology of primary tuberculosis.

(4×5 = 20 marks)

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

3. Define and classify hypersensitivity reactions. Describe anaphylaxis.

(1+2+7 = 10 marks)

**4. Write short notes on:**

- 4A. Bacterial flagella.
- 4B. Herpes simplex virus.
- 4C. Transduction.
- 4D. Non sporing anaerobes.
- 4E. Life cycle of *Echinococcus granulosus*.

(4×5 = 20 marks)



**MANIPAL UNIVERSITY****SECOND BDS DEGREE EXAMINATION – NOVEMBER 2012****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)  
(OLD REGULATION)**

Friday, November 23, 2012

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. Describe the process of healing of a clean uninfected surgical incision. Mention the factors that influence wound healing.

(5+5 = 10 marks)

**2. Write short notes on:**

- 2A. Granulomatous inflammation
- 2B. Niemann-pick disease
- 2C. Rhinosporidiosis
- 2D. Osteoclastoma
- 2E. Types of gangrene
- 2F. Differences between benign and malignant tumor

(5×6 = 30 marks)

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

3. Classify Spirochetes. Write in detail about the pathogenesis and laboratory diagnosis of syphilis.

(2+4+4 = 10 marks)

**4. Write short notes on:**

- 4A. Type I hypersensitivity
- 4B. Actinomycosis
- 4C. Bacteriophage
- 4D. Autoclave
- 4E. Laboratory diagnosis of malaria
- 4F. Robert Koch

(5×6 = 30 marks)

