

**MANIPAL UNIVERSITY****SECOND BDS DEGREE EXAMINATION – NOVEMBER 2013****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)  
(NEW REGULATION)**

Friday, November 22, 2013

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 oedema. Discuss the pathophysiologic categories of oedema. Write the difference between exudate and transudate.

(1+5+4 = 10 marks)

**2. Write short notes on:**

- 2A. Differences between wet and dry gangrene.
- 2B. Hemophilia.
- 2C. Vitamin A Deficiency.
- 2D. Osteosarcoma.
- 2E. Morphology of oral squamous cell carcinoma.

(4×5 = 20 marks)

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

3. Classify Clostridia of Medical Importance. Describe the pathogenicity and laboratory diagnosis of *Gas gangrene*.

(2+4+4 = 10 marks)

**4. Write short notes on:**

- 4A. Autoimmune disorders
- 4B. Bacteriophage
- 4C. Atypical Mycobacteria
- 4D. Louis Pasteur
- 4E. Antibiotic Sensitivity tests

(4×5 = 20 marks)



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Friday, November 22, 2013

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 anemias. Discuss the peripheral blood and bone marrow findings in iron deficiency anemia.

(2+4+4 = 10 marks)

**2. Write short notes on:**

- 2A. Fate of thrombus  
2B. Scurvy  
2C. Red infarct  
2D. Modes of spread of tumor  
2E. Basal cell carcinoma  
2F. Pathogenesis of oedema

(5×6 = 30 marks)

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

3. Describe the laboratory diagnosis and prophylaxis of diphtheria.

(6+4 = 10 marks)

**4. Write short notes on:**

- 4A. Bacterial capsule  
4B. Prophylaxis of hepatitis B virus infection  
4C. Laboratory diagnosis of malaria  
4D. ELISA  
4E. Oral microbial flora  
4F. Immunoglobulin G

(5×6 = 30 marks)

