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## MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER 2011

SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)  
(NEW REGULATION)

Friday, November 25, 2011

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. Define and classify Anemias and give the laboratory diagnosis of Iron deficiency anemia  
(2+4+4 = 10 marks)
2. Write short notes on:
  - 2A. The differences between transudate and exudate.
  - 2B. Factors influencing repair.
  - 2C. Actinomycosis.
  - 2D. Fate of a thrombus.
  - 2E. Ameloblastoma.(4×5 = 20 marks)

### SECTION "B": MICROBIOLOGY: 30 MARKS

3. Classify Streptococci. Write in detail the pathogenesis, clinical features and laboratory diagnosis of infections caused by Group A Streptococcus.  
(2+3+1+4 = 10 marks)
4. Write short notes on:
  - 4A. Differences between T and B Lymphocytes.
  - 4B. Cultivation of viruses.
  - 4C. DPT vaccine.
  - 4D. *Ancylostoma duodenale*.
  - 4E. Koch's postulates.(4×5 = 20 marks)



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(OLD REGULATION)**

Friday, November 25, 2011

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 neoplasia. Tabulate the differences between benign and malignant neoplasms. Discuss the aetiopathogenesis of oral squamous cell carcinoma.

(2+5+3 = 10 marks)

**2. Write short notes on:**

- 2A. Necrosis – Definition, types with examples.
- 2B. Cancrum oris.
- 2C. Embolism – Definition, types with examples.
- 2D. Leukemia – Definition, classification of acute leukemias.
- 2E. Fatty change.
- 2F. Wound healing – Factors affecting wound healing and complications.

(5×6 = 30 marks)

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

3. Describe the pathogenesis, clinical findings and laboratory diagnosis of diphtheria. Add a note on prophylaxis of diphtheria.

(3+2+3+2 = 10 marks)

**4. Write short notes on:**

- 4A. Laboratory diagnosis of HIV.
- 4B. T-cells.
- 4C. Oral microbial flora.
- 4D. Life cycle of *Plasmodium vivax*.
- 4E. Bacterial spore.
- 4F. Anaphylaxis.

(5×6 = 30 marks)

