

**MANIPAL UNIVERSITY****SECOND BDS DEGREE EXAMINATION – JULY 2017****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)**

Monday, July 17, 2017

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. Discuss the etiopathogenesis of septic shock. Write a note on the morphology of various organs in this condition.

(6+4 = 10 marks)

2. **Write short notes on:**

- 2A. Mention 2 oncogenes and their functions  
2B. Pathways of apoptosis  
2C. Squamous cell carcinoma of the oral cavity  
2D. Etiological classification of anemia  
2E. Secondary tuberculosis

(4 marks × 5 = 20 marks)

**SECTION “B”: MICROBIOLOGY (30 MARKS)**

1. 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)

2. **Write short notes on:**

- 2A. ELISA test  
2B. Cultivation of viruses  
2C. DPT vaccine  
2D. Oral thrush  
2E. Koch's postulates

(4 marks × 5 = 20 marks)

