

MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – JUNE 2010****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)
(NEW REGULATION)**

Friday, June 18, 2010

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 necrosis. Mention the different types of necrosis. Give examples for each.
(2+5+3 = 10 marks)
2. **Write short notes on the following:**
 - 2A. Modes of spread of tumors
 - 2B. Hemophilia
 - 2C. Granuloma
 - 2D. Calcification
 - 2E. Morphology of atheroma

(4×5 = 20 marks)

SECTION "B": MICROBIOLOGY: 30 MARKS

3. Classify Clostridia of medical importance. Explain the pathogenesis, laboratory diagnosis and prophylaxis of tetanus.
(1+3+3+3 = 10 marks)
4. **Write short notes on:**
 - 4A. Chemical disinfectants
 - 4B. Candidiasis
 - 4C. Measles Virus
 - 4D. Type IV Hypersensitivity reaction
 - 4E. Falciparum malaria

(4×5 = 20 marks)



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SECTION "A": GENERAL PATHOLOGY: 40 MARKS

1. Define neoplasia. List the major chemical carcinogens and describe viral carcinogenesis.
(2+8 = 10 marks)
2. **Write briefly on the following:**
 - 2A. Classification of Anemia
 - 2B. List types of emboli with a note on fat embolism
 - 2C. Definition and types of metaplasia with examples
 - 2D. Cellular events in acute inflammation
 - 2E. Local and systemic factors influencing wound healing
 - 2F. Type I hypersensitivity reaction

(5×6 = 30 marks)

SECTION "B": MICROBIOLOGY: 40 MARKS

3. Describe the pathogenesis, laboratory diagnosis and prophylaxis of tetanus.
(3+3+4 = 10 marks)
4. **Write short notes on:**
 - 4A. Bacterial spore
 - 4B. Passive immunity
 - 4C. Hydatid cyst
 - 4D. Candida albicans
 - 4E. Prophylaxis of hepatitis B virus infection
 - 4F. Autoclave

(5×6 = 30 marks)



MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – NOVEMBER 2010****SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)
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Saturday, November 27, 2010

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 neoplasia. Discuss viral carcinogenesis. (2+8 = 10 marks)

2. **Write short notes on the following:**
 - 2A. Differences between benign and malignant tumors.
 - 2B. Pleomorphic adenoma.
 - 2C. Type IV hypersensitivity.
 - 2D. Morphology of pyogenic osteomyelitis.
 - 2E. Complications of myocardial infarction.(4×5 = 20 marks)

SECTION "B": MICROBIOLOGY: 30 MARKS

3. Define and classify sterilization. Write in detail the principle and process of autoclaving. Add a note on uses of autoclave. (1+2+2+4+1 = 10 marks)

4. **Write short notes on:**
 - 4A. Type I hypersensitivity.
 - 4B. Botulism.
 - 4C. Bacteriophage.
 - 4D. Markers of hepatitis B virus.
 - 4E. Laboratory diagnosis of malaria.(4×5 = 20 marks)



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Time: 14:30 – 17:00 Hrs.

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- ✍ Write brief, clear, relevant and legible answers.
- ✍ Illustrate your answers with diagrams, flow charts wherever appropriate.

SECTION "A": GENERAL PATHOLOGY: 40 MARKS

1. Classify diabetes mellitus. Discuss the etiopathogenesis of any one type. List the complications.
(2+3+5 = 10 marks)
2. **Write short notes on:**
 - 2A. Hepatitis B virus
 - 2B. Pleomorphic adenoma
 - 2C. Morphology of osteosarcoma
 - 2D. Niemann-Pick disease
 - 2E. Ameloblastoma
 - 2F. Rickets

(5×6 = 30 marks)

SECTION "B": MICROBIOLOGY: 40 MARKS

3. Classify Streptococci. Describe the pathogenesis and laboratory diagnosis of Group A Streptococcus infection.
(2+4+4 = 10 marks)
4. **Write short notes on:**
 - 4A. Bacterial growth curve
 - 4B. Laboratory diagnosis of amoebic dysentery
 - 4C. Nonsporing anaerobes
 - 4D. T cells
 - 4E. *Candida albicans*
 - 4F. Structure of Human Immunodeficiency Virus

(5×6 = 30 marks)

