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MANIPAL UNIVERSITY
SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. C.V.T./ B.Sc. R.R.T & D.T. AND
FOURTH SEMESTER BACHELOR OF PERFUSION TECHNOLOGY
DEGREE EXAMINATION – JUNE 2014

SUBJECT: PATHOLOGY
(COMMON FOR 2010 BATCH (NR)/2011 BATCH/2010 BATCH/2011 BATCH)

Monday, June 16, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- ✍ **Answer ALL questions.**
- ✍ **Illustrate your answers with diagrams wherever necessary.**

1. Etiopathogenesis, laboratory serum markers and complications of acute myocardial infarction.
(3+2+3 = 8 marks)

2. Define and classify anaemia. Enumerate the causes and laboratory diagnosis of iron deficiency anaemia.
(3+4 = 7 marks)

3. **Write short notes on:**
 - 3A. Lobar pneumonia
 - 3B. Septic shock
 - 3C. Granulomatous inflammation
 - 3D. Mechanism of metastasis
 - 3E. Peptic ulcer

(5 marks × 5 = 25 marks)



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MANIPAL UNIVERSITY**SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT/
FOURTH SEMESTER B. PFT DEGREE EXAMINATION – JUNE 2014****SUBJECT: MICROBIOLOGY****(COMMON FOR 2010 BATCH (NR)/2011 BATCH/2010 SCHEME/2011 SCHEME)**

Wednesday, June 18, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer all questions. Illustrate your answers with neat labeled diagram wherever necessary.**

1. Enumerate the organisms causing sexually transmitted diseases. Describe the pathogenesis, clinical features and laboratory diagnosis of Human Immunodeficiency virus infection.
(2+2+2+2 = 8 marks)

2. Describe the bacterial cell structure with a neat labeled diagram.
(4+3 = 7 marks)

3. **Write short notes on:**

3A. Sources and routes of spread of nosocomial infections

3B. Antibacterial susceptibility testing

3C. Life cycle of *Ancylostoma duodenale*

3D. Prophylaxis of tetanus

3E. Laboratory diagnosis of Urinary tract infection (UTI)

(5 marks × 5 = 25 marks)



MANIPAL UNIVERSITY

**SECOND YEAR B.P.T./B.O.T./B.Sc. M.I.T./B.Sc. C.V.T./B.Sc. R.R.T. & D.T. /
FOURTH SEMESTER BACHELOR OF CLINICAL OPTOMETRY/B.PFT
DEGREE EXAMINATION – JUNE 2014**

SUBJECT: PHARMACOLOGY

(COMMON FOR 2010 BATCH (NR)/2011 BATCH/2012 SCHEME/2011 SCHEME & GS2011 & 2012 BATCH)

Friday, June 20, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer the following questions:

1. Define the following terms with an example for each:

- 1A. Synergism
- 1B. Iatrogenic disease
- 1C. Chemoprophylaxis

(2 marks × 3 = 6 marks)

- 2A. Mention two advantages and two disadvantages of intravenous routes of drug administration.
- 2B. List four factors affecting absorption of a drug.
- 2C. Mention three groups of drugs with an example for each class useful in hypertension.

(2+2+3 = 7 marks)

3. Mention two drugs each useful in the following condition:

- 3A. Parkinsonism
- 3B. Vomiting
- 3C. HIV infection
- 3D. Insomnia
- 3E. Diabetes mellitus

(1 mark × 5 = 5 marks)

4. Describe the mechanism of action of the following drugs:

- 4A. Omeprazole
- 4B. Salbutamol

(2 marks × 2 = 4 marks)

5. Explain the basis for the following:

- 5A. Allopurinol is used in the treatment of chronic gout
- 5B. Nitroglycerin is used in the treatment of angina pectoris

(2 marks × 2 = 4 marks)

6. List two examples each for the following class of drugs:

- 6A. Loop diuretics
- 6B. Glucocorticoids
- 6C. Anticoagulants
- 6D. Quinolones
- 6E. Aminoglycosides

(1 mark \times 5 = 5 marks)

7. Enumerate three anticholinergics and list their three therapeutic uses.

(3 marks)

8. Write short notes on the following:

- 8A. Drug nomenclature
- 8B. Aspirin

(3 marks \times 2 = 6 marks)



MANIPAL UNIVERSITY

SECOND YEAR B.Sc. RRT & DT DEGREE EXAMINATION – JUNE 2014

SUBJECT: BDT 204 – RENAL DISEASE, PRINCIPLES OF RENAL REPLACEMENT
THERAPY & WATER TREATMENT PLANT

Monday, June 23, 2014

Time: 10.00-13.00 Hrs.

Max. Marks: 80

1. Long essay questions.

- 1A. Describe a typical water treatment system for hemodialysis.
- 1B. Describe the indications and contraindications for PD in ESRD.
- 1C. Discuss the needling techniques of AVF and clinical monitoring for stenosis.

(10 marks × 3 = 30 marks)

2. Short essay questions.

- 2A. What is innate immunity? What is the role of helper T cells in immunity?
- 2B. Prescribe a diet for the ESRD HD patient.
- 2C. Describe the process of CDC crossmatch.
- 2D. What are the different modalities of chronic PD?
- 2E. Discuss the complications of ESRD.
- 2F. How is HD adequacy assessed?

(5 marks × 6 = 30 marks)

3. Write short notes on:

- 3A. Write a note on water softeners.
- 3B. Which are the foods rich in Potassium?
- 3C. Which dietary items have a high phosphate content?
- 3D. Name four adverse effects of steroids.
- 3E. Which are the commonly used immunosuppressants in renal transplantation?
- 3F. What is a balanced diet?
- 3G. What are the steps of dialyzer reprocessing?
- 3H. Name two immediate complications of central vein catheterisation.
- 3I. Name two measures to manage intradialytic hypotension.
- 3J. What are the manifestations of dialysis disequilibrium syndrome?

(2 marks × 10 = 20 marks)

