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MANIPAL UNIVERSITY

SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. C.V.T. AND FOURTH SEMESTER BACHELOR OF PERFUSION TECHNOLOGY DEGREE EXAMINATION – DECEMBER 2014

SUBJECT: PATHOLOGY/ PATHOLOGY II (PFT 204)
(2010 BATCH (NR)/2011 BATCH/2010 SCHEME/2011 SCHEME/GS)

Wednesday, December 17, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

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

1. Classify anemia. List the clinical features of iron deficiency anemia. Discuss the laboratory diagnosis of the same.
(2+2+4 = 8 marks)
2. Define granulation tissue. Explain the process of healing by primary intention. List the factors affecting wound healing.
(1+3+3 = 7 marks)
3. **Write short notes on:**
 - 3A. Rheumatoid arthritis
 - 3B. Etiology and types of pneumonia
 - 3C. Types of oedema
 - 3D. Laboratory diagnosis of cancer
 - 3E. Mode of infection and clinical features of hepatitis B

(5 marks × 5 = 25 marks)



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SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/FOURTH SEMESTER B. PFT
DEGREE EXAMINATION – DECEMBER 2014

SUBJECT: MICROBIOLOGY/MICROBIOLOGY II (PFT 206)
(2010 BATCH/2011 BATCH/2010 SCHEME/2011 SCHEME/GS)

Thursday, December 18, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer all questions. Draw diagrams wherever appropriate.

1. Define sterilization and disinfection. Explain dry heat method of sterilization.
(1+1+6 = 8 marks)
2. Define and classify immunity. Describe the mechanisms of innate immunity.
(1+2+4 = 7 marks)
3. **Write short notes on:**
 - 3A. Laboratory diagnosis of pulmonary tuberculosis
 - 3B. Bacterial cell wall
 - 3C. Laboratory diagnosis of Staphylococcus aureus
 - 3D. Prophylaxis of poliomyelitis
 - 3E. Robert Koch

(5 marks × 5 = 25 marks)



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**SECOND YEAR B.P.T./B.O.T./B.Sc. C.V.T./FOURTH SEMESTER BACHELOR OF
CLINICAL OPTOMETRY/B.PFT DEGREE EXAMINATION – DECEMBER 2014**

**SUBJECT: PHARMACOLOGY/PHARMACOLOGY II (PFT 202)
(2010 BATCH/2011 BATCH/2011 SCHEME/GS 2011 & 2012 BATCH/GS)**

Friday, December 19, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✗ Answer the following questions:

1. Define the following terms:

- 1A. Therapeutic index
- 1B. Potency
- 1C. Biotransformation
- 1D. Zero order kinetics

(1 mark × 4 = 4 marks)

2. List two advantages and two disadvantages of the following routes of drug administration:

- 2A. Oral
- 2B. Intramuscular

(2 marks × 2 = 4 marks)

3. List two drugs belonging to the following groups and list two therapeutic uses of any one of them:

- 3A. Macrolides
- 3B. Selective COX-2 inhibitors
- 3C. Adrenergic agonists
- 3D. Opioids

(2 marks × 4 = 8 marks)

4. Mention two drugs each useful in the following conditions and mention two specific adverse effects of any one of them:

- 4A. Tuberculosis
- 4B. Amoebiasis
- 4C. Malaria
- 4D. Epilepsy

(2 marks × 4 = 8 marks)

- 5A. Enumerate two glucocorticoids and mention their two uses and two specific adverse effects.
5B. Write a short note on drug nomenclature.

(3+3 = 6 marks)

- 6A. Enumerate two anticancer drugs and mention their two general toxicities.
6B. Mention two beta lactam antibiotics and explain the mechanism of action of any one of them.

(2+3 = 5 marks)

7. Mention two examples for each of the following groups of drugs:

- 7A. Anticholinergics
7B. Calcium channel blockers
7C. Anthelmintics
7D. Proton pump inhibitors
7E. Aminoglycosides

(1 mark × 5 = 5 marks)



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – DECEMBER 2014

SUBJECT: PAPER IV – DIAGNOSTIC AND THERAPEUTICS CARDIOLOGY
(2011 SCHEME)

Saturday, December 20, 2014

Time: 10.00-11.30 Hrs.

Max. Marks: 40

Answer all the questions, draw the diagram wherever necessary.

1. Write a note on pacing threshold and factor affecting the pacing threshold.
2. When do you terminate TMT? Explain Metabolic equivalent, Rate pressure product and its significance briefly.
3. Explain indications, patient preparation and complications of TEE.
4. Explain pacemaker lead types and lead related complications.
5. Explain some causes of Pulmonary artery hypertension and diagnostic modalities.

(8 marks × 5 = 40 marks)

