Reg. No.

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

 $(5 \text{ marks} \times 5 = 25 \text{ marks})$

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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)

 $(5 \text{ marks} \times 5 = 25 \text{ marks})$

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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

 $(2 \text{ marks} \times 3 = 6 \text{ marks})$

- 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

 $(1 \text{ mark} \times 5 = 5 \text{ marks})$

- 4. Describe the mechanism of action of the following drugs:
- 4A. Omeprazole
- 4B. Salbutamol

 $(2 \text{ marks} \times 2 = 4 \text{ marks})$

- 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

 $(2 \text{ marks} \times 2 = 4 \text{ marks})$

- 6. List two examples each for the following class of drugs:
- 6A. Loop diuretics
- 6B. Glucocorticoids
- 6C. Anticoagulants
- 6D. Quinolones
- 6E. Aminoglycosides

 $(1 \text{ mark} \times 5 = 5 \text{ marks})$

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

(3 marks)

- 8. Write short notes on the following:
- 8A. Drug nomenclature
- 8B. Aspirin

 $(3 \text{ marks} \times 2 = 6 \text{ marks})$

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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2014 SUBJECT: PAPER IV – DIAGNOSTIC AND THERAPEUTICS CARDIOLOGY (2011 SCHEME)

Monday, June 23, 2014

Time: 10.00-11.30 Hrs.

Max. Marks: 40

- Answer all the questions, draw the diagram wherever necessary.
- 1. Explain ACC/AHA guidelines for exercise testing in patients with valvular heart disease.
- 2. Explain basic components of cardiac pacemakers.
- 3. Write a note on Bruce protocol on treadmill test and non –coronary indications in detail.
- 4. Explain X-ray features of Pulmonary artery and venous hypertension.
- 5. Write a note on strength duration curve of pacing and factors affecting the SD curve.

 $(8 \text{ marks} \times 5 = 40 \text{ marks})$

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

SUBJECT: PAPER V – CONGENITAL & ACQUIRED HEART DISEASE (2011 SCHEME)

Wednesday, June 25, 2014

Time: 10.00 - 11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- Draw the diagram wherever necessary.
- 1. Explain major electrophysiological abnormalities, X-ray and echocardiography in Ebstein's anomaly.
- 2. Explain clinical features and natural history of DORV in detail.
- 3. Explain ECG, X-ray, Echocardiographic findings in Endocardial cushion defect in detail.
- 4. Explain etiology and Severity assessment of Aortic Regurgitation.
- 5. Explain classification and related ECG findings in Tricuspid Atresia.

 $(8 \text{ marks} \times 5 = 40 \text{ marks})$