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## MANIPAL UNIVERSITY

SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2011

SUBJECT: PAPER I: PATHOLOGY

Monday, June 06, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

1. Define anemia. Write the clinical features, aetiology and basic investigations of thalassemia and sickle cell anemia.

(1+3½+3½ = 8 marks)

2. Define thrombosis. Discuss briefly the factors influencing thrombosis and the fate of a thrombus.

(1+3+3 = 7 marks)

3. Write short notes on:

- 3A. Nomenclature of tumours.  
3B. Pneumoconiosis.  
3C. Bronchial asthma.  
3D. Rheumatoid arthritis.  
3E. Definition and examples of hypertrophy and metaplasia.

(5×5 = 25 marks)



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## MANIPAL UNIVERSITY

SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2011

SUBJECT: PAPER II - MICROBIOLOGY

Wednesday, June 08, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

**✍ Draw diagrams wherever appropriate**

1. Enumerate the disinfectants commonly used in hospital practice. Explain their mechanism of action and applications.

(2+6 = 8 marks)

2. Explain the pathogenesis of enteric fever. Add a note on its laboratory diagnosis.

(3+4 = 7 marks)

**3. Write short notes on:**

3A. Delayed hypersensitivity.

3B. Laboratory diagnosis of HIV infection.

3C. Bacterial growth curve.

3D. Pathogenesis of infective endocarditis.

3E. Laboratory diagnosis of pyogenic meningitis.

(5×5 = 25 marks)



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# MANIPAL UNIVERSITY

SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2011

SUBJECT: PAPER III – PHARMACOLOGY

Friday, June 10, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

1. Mention two non-receptor mediated drug actions and give one example for each. (3 marks)
2. Enumerate two sources of drugs with one example for each. (2 marks)
3. Explain the mechanism of action of the following drugs and list two uses for each.
  - 3A. Cotrimoxazole
  - 3B. Sodium nitroprusside(3×2 = 6 marks)
4. Mention four therapeutic uses and four adverse effects of angiotensin converting enzyme inhibitors. (2+2 = 4 marks)
5. Mention two differences between heparin and warfarin. (2 marks)
6. Classify antianginal drugs with an example for each class. (3 marks)
7. Mention two therapeutic uses and two adverse effects of the following:
  - 7A. Metronidazole
  - 7B. Adrenaline
  - 7C. Diazepam
  - 7D. Morphine
  - 7E. Chloroquine(2×5 = 10 marks)
8. Enumerate two loop diuretics. Explain their mechanism of action and mention their two therapeutic uses. (1+2+1 = 4 marks)
9. Define chemoprophylaxis with an example. (2 marks)
10. Mention two drugs used for the following conditions:
  - 10A. Peptic ulcer.
  - 10B. Congestive cardiac failure.
  - 10C. Glaucoma.
  - 10D. Bronchial asthma.(1×4 = 4 marks)



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## MANIPAL UNIVERSITY

SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2011

SUBJECT: PAPER IV – DIAGNOSTIC AND THERAPEUTICS CARDIOLOGY

Monday, June 13, 2011

Time: 14.00-17.00 Hrs.

Max. Marks: 80

**Answer all the Questions, Label the diagram wherever necessary.**

1. Describe Types, ECG changes, X-ray findings and management of Atrial Septal Defect. (20 marks)
2. Explain Indications, Procedure and interpretation of Head up tilt table Test (HUTT). (20 marks)
3. **Short notes:**
  - 3A. Explain cyanotic spell.
  - 3B. DDD Pacemaker.
  - 3C. ECG in Right ventricular Hypertrophy.
  - 3D. Heart murmurs.
  - 3E. Anatomy of conduction system of the Heart.

(8×5 = 40 marks)

