

MANIPAL UNIVERSITY

SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2012

SUBJECT: PAPER I: PATHOLOGY

Monday, June 11, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

1. Discuss the aetiology, clinical features and basic investigations of iron deficiency anemia.
(3+2+3 = 8 marks)

2. Define bronchial asthma. Discuss the aetiology, types and clinical features of bronchial asthma.
(1+2+2+2 = 7 marks)

3. **Write short note on:**
 - 3A. Differences between benign and malignant tumours.
 - 3B. Aetiology, modes of infection and clinical features of AIDS.
 - 3C. Types and complications of diabetes mellitus.
 - 3D. Fate of a thrombus.
 - 3E. Pneumoconiosis.

(5×5 = 25 marks)



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2012
SUBJECT: PAPER II - MICROBIOLOGY

Wednesday, June 13, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Draw diagrams wherever appropriate.**

1. Define classical PUO and explain the steps involved in its investigation.

(2+6 = 8 marks)

2. Explain the clinical features and laboratory diagnosis of HIV infection.

(3+4 = 7 marks)

3. **Write short notes on:**

3A. Working principle of autoclave.

3B. Mechanisms of autoimmunity.

3C. Bacterial growth curve.

3D. Laboratory diagnosis of cholera.

3E. MRSA and its importance in nosocomial infections.

(5×5 = 25 marks)



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2012

SUBJECT: PAPER III – PHARMACOLOGY

Friday, June 15, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

1. Define the following terms with an example:
 - 1A. Chemoprophylaxis
 - 1B. Competitive antagonism

(2×2 = 4 marks)
2. List four factors affecting drug absorption.

(2 marks)
3. Enumerate two drugs belonging to two different class used in angina. Explain the mechanism of action of any one of them.

(3 marks)
4. List two ACE inhibitors. Mention their two uses and two adverse effects.

(3 marks)
5. Explain the pharmacological basis for the following:
 - 5A. Use of salbutamol in bronchial asthma.
 - 5B. Combined use of levodopa and carbidopa in parkinsonism.
 - 5C. Ethanol in methanol poisoning.
 - 5D. Furosemide in pulmonary edema.

(2×4 = 8 marks)
6. List two examples and two uses of the following class:
 - 6A. Aminoglycosides
 - 6B. Anticoagulants
 - 6C. Anticholinesterases
 - 6D. Alpha blockers
 - 6E. Opioids

(2×5 = 10 marks)
7. Write briefly on:
 - 7A. Chloroquine
 - 7B. Sublingual route of drug administration

(3×2 = 6 marks)
8. Enumerate two corticosteroids. Explain their mechanism of anti-inflammatory action. List their two adverse effects.

(1+2+1 = 4 marks)



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2012
SUBJECT: PAPER IV – DIAGNOSTIC AND THERAPEUTICS CARDIOLOGY

Monday, June 18, 2012

Time: 10.00-13.00 Hrs.

Max. Marks: 80

Answer all the Questions, Draw the Diagram wherever necessary.

1. Describe Dobutamine stress Echo, Indications and methodology.
2. Explain clinical features, X-ray, ECG and Echo in TAPVC.

(20×2 = 40 marks)

3. Write Short notes:

- 3A. Modified Jones criteria for Rheumatic fever.
- 3B. Non cardiac Indications and contraindications for Tread Mill Test.
- 3C. DDDR pacemaker and its time cycle.
- 3D. Cyanotic spell.
- 3E. Pulmonary flow in Chest X-ray.

(8×5 = 40 marks)

