

Reg. No.

MANIPAL UNIVERSITY

SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: PATHOLOGY AND MICROBIOLOGY

Monday, June 07, 2010

Time: 14:00-17:00 Hrs.

Max. Marks: 80

✍ Answer SECTION – A and SECTION – B in TWO separate answer books.

SECTION – 'A' : PATHOLOGY : 40 MARKS

1. Define thrombosis. What are the factors affecting thrombosis. Mention the fate of a thrombus.
(2+3+3 = 8 marks)
2. Describe the classification and clinical features of leukemia.
(4+3 = 7 marks)
3. Write short notes on:
 - 3A. Emphysema.
 - 3B. Complications of diabetes mellitus.
 - 3C. Spread of tumors.
 - 3D. Secondary tuberculosis.
 - 3E. Healing by primary intention.(5×5 = 25 marks)

SECTION – 'B' : MICROBIOLOGY : 40 MARKS

4. Define and classify sterilization. Explain methods of dry heat sterilization.
(1+2+5 = 8 marks)
5. Enumerate organisms causing urinary tract infections. Describe the laboratory diagnosis of UTI.
(3+4 = 7 marks)
6. Write short notes on any FIVE:
 - 6A. Candidiasis
 - 6B. Bacterial flagella
 - 6C. Prophylaxis of Poliomyelitis
 - 6D. Gas gangrene
 - 6E. VDRL test
 - 6F. AIDS(5×5 = 25 marks)



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: PHARMACOLOGY

Wednesday, June 09, 2010

Time: 14:00-15:30 Hrs.

Max. Marks: 40

1. Enumerate two methods to prolong the action of drug with an example for each. (2 marks)
2. Mention four NSAID's. Explain their mechanism of analgesic action. List two specific adverse effects of any one of them. (4 marks)
3. Define drug synergism and drug antagonism with an example for each. (4 marks)
4. Give two examples for the following class of drugs:
 - 4A. Macrolides
 - 4B. ACE inhibitors
 - 4C. Anticancer drugs
 - 4D. Antiallergic drugs
 - 4E. Immunomodulators(1×5 = 5 marks)
5. Write briefly on:
 - 5A. Tear substitutes
 - 5B. Enzymes in ophthalmic practice
 - 5C. Mydriatics
 - 5D. Heparin
 - 5E. Metoclopramide(3×5 = 15 marks)
6. Mention two drugs used for the following conditions:
 - 6A. Angina pectoris
 - 6B. Bacterial conjunctivitis
 - 6C. Toxoplasmosis
 - 6D. Ocular candidiasis(1×4 = 4 marks)
7. Explain the rationale for the following:
 - 7A. Timolol in glaucoma
 - 7B. Ethanol in methanol poisoning
 - 7C. Levodopa in parkinsonism
 - 7D. Neostigmine in ocular myasthenia(1½×4 = 6 marks)



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: DIAGNOSTIC AND THERAPEUTICS CARDIOLOGY

Friday, June 11, 2010

Time: 14.00-17.00 Hrs.

Max. Marks: 80

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

1. Describe Classification, ECG, X-ray findings and management of Ventricular Septal Defect. (20 marks)
2. Name Different types of Cardiac stress Test and Explain in Detail the Dobutamine Stress Echocardiography. (20 marks)
3. **Short notes:**
 - 3A. Explain the non-cardiac indications for TMT.
 - 3B. What is Ejection Fraction? Enumerate the methods of measuring EF by Echocardiography.
 - 3C. ECG changes in LVH.
 - 3D. VVI Pacemaker.
 - 3E. Coronary Anatomy.

(8×5 = 40 marks)

