

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  
DEGREE EXAMINATION – JUNE 2015

SUBJECT: PATHOLOGY  
(2010 SCHEME/2011 BATCH/2010 SCHEME/2011 SCHEME)

Monday, June 15, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

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

1. Classify anemia. What are the biochemical investigations and peripheral blood smear picture in iron deficiency anemia.  
(3+3+2 = 8 marks)
  
2. Mention the causative organism of Tuberculosis. Define primary and secondary Tuberculosis. Describe morphology of secondary pulmonary tuberculosis.  
(1+2+4 = 7 marks)
  
3. Write short notes on:
  - 3A. Gangrene
  - 3B. Phagocytosis
  - 3C. Osteoporosis
  - 3D. Types of embolism
  - 3E. Factors influencing fracture healing and its complications(5 marks × 5 = 25 marks)



## MANIPAL UNIVERSITY

SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT  
DEGREE EXAMINATION – JUNE 2015SUBJECT: MICROBIOLOGY  
(COMMON FOR 2010 SCHEME/2011 BATCH/2010 SCHEME/2011 SCHEME)

Wednesday, June 17, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ Answer all questions. Illustrate your answers with neat labeled diagram wherever necessary.

1. Describe the pathogenesis, laboratory diagnosis and prophylaxis of Tetanus.  
(3+2+3 = 8 marks)
2. Define and classify immunity. Describe in detail about acquired immunity.  
(1+2+4 = 7 marks)
3. Write short notes on:
  - 3A. Bacterial growth curve
  - 3B. Laboratory diagnosis of fungal infections
  - 3C. Bacterial endocarditis
  - 3D. Laboratory diagnosis of Hepatitis B virus infection
  - 3E. Hot air oven

(5 marks × 5 = 25 marks)



**MANIPAL UNIVERSITY****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.  
DEGREE EXAMINATION – JUNE 2015****SUBJECT: PHARMACOLOGY**  
(COMMON FOR 2010 REGULATION/2011 BATCH/2012 SCHEME/2011 SCHEME)

Friday, June 19, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

**Answer the following questions:****1. Define the following terms:**

- 1A. Biotransformation
- 1B. First pass metabolism
- 1C. Chemoprophylaxis

(2 marks × 3 = 6 marks)

- 2A. List three advantages and three disadvantages of oral route of drug administration.
- 2B. Describe the effects of adrenaline on: heart and blood vessels.
- 2C. List two bronchodilators used in asthma and explain the mechanism of action of any one of them.
- 2D. Describe three factors modifying drug action.

(3+3+3+3 = 12 marks)

- 3A. Name two antiplatelet drugs and mention two therapeutic uses of them.
- 3B. Write basis for combining levodopa and carbidopa in Parkinsonism.
- 3C. Describe mechanism of action of cotrimoxazole and mention its one use.
- 3D. List two therapeutic uses and two adverse effects of corticosteroids.

(2+2+2+2 = 8 marks)

**4. Describe the following terms with one example:**

- 4A. Brand name of drug
- 4B. Synergism
- 4C. Local anesthetics

(2 marks × 3 = 6 marks)

**5. Mention two drugs belonging to the following groups:**

- 5A. Sedatives
- 5B. ACE Inhibitors
- 5C. Hypolipidemics

(1 mark × 3 = 3 marks)

6. **List two drugs used in the following conditions:**

6A. Cough

6B. Type 2 Diabetes mellitus

6C. Peptic ulcer

6D. Angina

6E. HIV infection

(1 mark  $\times$  5 = 5 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

## MANIPAL UNIVERSITY

SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2015

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

Monday, June 22, 2015

Time: 10.00-11.30 Hrs.

Max. Marks: 40

---

- ✍ Answer ALL the questions.
- ✍ Draw the diagram wherever necessary.

1. Explain chest x-ray of pulmonary vascularity in heart disease.
2. Write a note on life style modification to prevent and manage Hypertension.
3. Explain indications and types of ST –T changes in TMT.
4. Write a note on thallium stress test.
5. Explain NBG classification for communicating the mode and functional characteristic of pulse generator.

(8 marks × 5 = 40 marks)



Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--

**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2015**  
**SUBJECT: PAPER V – CONGENITAL & ACQUIRED HEART DISEASE**  
**(2011 SCHEME)**

Wednesday, June 24, 2015

Time: 10.00 – 11.30 Hrs.

Max. Marks: 40

---

- ✍ **Answer ALL the questions.**
- ✍ **Draw the diagram wherever necessary.**

1. Explain classification, associated CHD'S, ECG and X-ray findings in ASD.
2. Explain ECG, X-ray and echocardiographic findings in D-TGA in detail.
3. Explain clinical presentation and Echocardiography in CoA.
4. Explain clinical features and laboratory diagnosis of rheumatic fever.
5. Write a short note on cyanosis and Hypoxic spell's.

(8 marks × 5 = 40 marks)

