

MANIPAL ACADEMY OF HIGHER EDUCATION**SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT
DEGREE EXAMINATION – JUNE 2018****SUBJECT: MICROBIOLOGY**

(COMMON FOR 2010 REGULATION/BOT 208:2015 & 2011 SCHEME/2010 & 2015 SCHEME/2015 SCHEME/BDT 202)

Friday, June 22, 2018

Time: 10:00-11:30 Hrs.

Max. Marks: 40

 **Draw diagrams wherever appropriate.**

1. Describe the pathogenesis and laboratory diagnosis of human immunodeficiency virus infection.

(4+4 = 8 marks)

2. Describe the predisposing factors in urinary tract infections (UTI). Discuss the laboratory diagnosis of UTI.

(2+5 = 7 marks)

3. **Write briefly on:**

3A. Mechanism of type IV hypersensitivity

3B. Laboratory diagnosis of tuberculosis

3C. MRSA and its importance in hospital associated infections

3D. Moist heat sterilization above 100°C

3E. Bacterial flagella

(5 marks × 5 = 25 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2018
SUBJECT: PAPER IV – DIAGNOSTIC AND THERAPEUTIC CARDIOLOGY
(2015 SCHEME)

Monday, June 25, 2018

Time: 10.00-11.30 Hrs.

Max. Marks: 40

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

1. Explain role of TMT in Congenital heart diseases and cardiac arrhythmias.
2. Define chest X-ray in pulmonary plethora and oligemia.
3. Explain pacemaker lead types and lead related complications. Write a note on sensors.
4. Write a note on Thallium stress test.
5. Define system gain, Time gain compensation, pulse repetition frequency, Frame rate and scan angle.

(8 marks × 5 = 40 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2018
SUBJECT: PAPER V – CONGENITAL & VALVULAR HEART DISEASE
(2015 SCHEME)

Tuesday, June 26, 2018

Time: 10.00 – 11.30 Hrs.

Max. Marks: 40

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

1. Explain clinical presentation, natural history and ECHO in Ebstein's anomaly.
2. Explain major hemodynamics subtypes in D-TGA.
3. Explain Echocardiography findings in TAPVC in detail.
4. Define Pathophysiology of Mitral Regurgitation.
5. Explain classification, associated CHD'S, ECG and X-ray findings in ASD.

(8 marks × 5 = 40 marks)

