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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

IV SEMESTER B.Tech. (BME) DEGREE MAKE-UP EXAMINATIONS, JUNE 2018.

SUBJECT: BASIC CLINICAL SCIENCES-I (BME 2204)
(REVISED CREDIT SYSTEM)

Tuesday, 12th June 2018, 2 to 5 pm

TIME: 3 HOURS

MAX. MARKS: 100

Instructions to Candidates:

1. Answer All questions of PART-A, PART-B and PART-C
2. Use separate answer books for PART-A, Part-B and PART-C
3. Draw labeled diagram wherever necessary

PART-A CARDIOLOGY (Max. Marks 30)

- Q1) Describe pacemaker components in detail. 10
- Q2) (i) Write the indication for Tread mill test. 5+5
(ii) Define Einthoven triangle and describe standard bipolar lead system in ECG.
- Q3) (i) Explain briefly the coronary interventional hard wares in cath lab. 5+5
(ii) Write ECG criteria for Right Bundle Branch Block.

PART-B. ANAESTHESIOLOGY (Max. Marks 40)

- Q1) What are the indications, advantages and disadvantages of central venous pressure monitoring? 10
- Q2) Describe the safety features to prevent delivery of hypoxic gas mixture in an anaesthesia machine. 10
- Q3) Describe various modes of ventilation. With neat labelled diagrams, explain ventilator graphics. 10
- Q4) Describe in brief the oxygen supply system in a tertiary care hospital. 10

PART-C. ENT. (Max. Marks 30)

- Q1) Describe the physiology of hearing. 10
- Q2) What is laser and explain the principle of laser? Discuss the uses of CO₂ laser in ENT. 6+4
- Q3) Enumerate different methods of voice rehabilitation? Write a note on voice prosthesis. 6+4