

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



MANIPAL INSTITUTE OF TECHNOLOGY
(A constituent unit of MAHE, Manipal 576104)

IV SEMESTER B.Tech. (BME) DEGREE END SEM EXAMINATIONS, APR/MAY 2019.

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

Wednesday, 24th April 2019, 2 pm to 5 pm

TIME: 3 HOURS

MAX. MARKS: 50

Instructions to Candidates:

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

PART-A: CARDIOLOGY (Max. Marks 15)

1. Write a note on programming parameters of cardiac pacemakers. 5
2. Discuss the components of Rotablation. 5
3. Explain the different types of Ultrasound transducers. 5

PART-B: ANAESTHESIOLOGY (Max. Marks 20)

1. Describe a Medical oxygen cylinder. 5
2. Explain with diagram the following phase variables with regards to mechanical ventilators trigger, limit and cycle. 5
3. List 5 safety features present in anaesthetic machines to prevent delivery of hypoxic gas mixture. 5
4. List four equipment's used to monitor body temperature. List different sites used to monitor core body temperature. 5

PART-C: ENT. (Max. Marks 15)

1. Enumerate functions of larynx. 5
2. Write a note on parts of cochlear implant and its working principle and its indications. 1+2+2
3. What is LASER? What is the principle of LASER? Enumerate uses of LASER in ENT. 1+2+2