MAX. MARKS: 50



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

IV SEMESTER B.Tech. (BME) DEGREE MAKE UP EXAMINATIONS, JUNE 2019.

SUBJECT: BASIC CLINICAL SCIENCES-I (BME 2204) (REVISED CREDIT SYSTEM) Saturday, 8th June 2019: 2 PM to 5 PM

TIME: 3 HOURS

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 the ECG criteria for Left and right ventricular hypertrophy.	5
2.	Explain the conduction system of the heart.	5
3.	Write a note on different types of cardiac pacing devices.	5
	PART-B: ANAESTHESIOLOGY (Max. Marks 20)	
1.	Describe the variable bypass mechanism used in current TEC vaporizers? What are the techniques used for temperature compensation by TEC vaporizers?	5
2.	What is Bernoulli's principle? What is venturi phenomenon? How do these apply to gas flow in anaesthesia?	5
3.	Name the various devices available for Gas Flow measurement? Elaborate on any one including advantages and disadvantages?	5
4.	Describe resistance and compliance with respect to ventilation?	5
	PART-C: ENT. (Max. Marks 15)	
1.	Enumerate different methods of post laryngectomy speech rehabilitation. Write a brief note on any one method of speech rehabilitation.	2.5+2.5
2.	Write a note on osteomeatal complex in the lateral wall of nose.	5
3.	Discuss the role of Endoscopy in ENT	5