

IV SEM B.Tech. (BME) DEGREE END-SEMESTER EXAMINATIONS, APRIL/MAY 2017.

SUBJECT: BASIC CLINICAL SCIENCES-I (BME 2204) (REVISED CREDIT SYSTEM) Friday, 28th April 2017, 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)	Draw Einthoven triangle and explain the lead system for chest leads	10
Q2)	Explain pacemaker lead types and lead related complication.	5+5
Q3)	(i) Explain LVH and RVH in ECG	4
	(ii) Write a short note on Intra-aortic balloon pump and M-mode, 2D Echocardiography.	3+3
	PART-B. ANAESTHESIOLOGY (Max. Marks 40)	
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Q1)	Define venturis principle with a neat labelled diagram? What are its application in anaesthesia?	10
Q2)	What are the different principles used for end tidal carbon dioxide monitoring? Explain with diagram	10
Q3)	What are the indications advantages and disadvantages of central venous pressure monitoring?	10
Q4)	Write a note on flow meters	10

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

- Q1) Enumerate the different methods of post laryngectomy speech rehabilitation. Write a 5+5 note on any one method of speech rehabilitation.
- Q2) (i) What is LASER and principle of LASER?

4+3+3

- (ii) Give the uses of CO_2 LASER in ENT.
- (iii) What are the precautions to be taken while using LASER?
- Q3) (i) Write a note on transformer mechanism of middle ear.

5+5

(ii) Draw a neat labeled diagram of organ of corti.

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