Reg. No.											
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MAX. MARKS: 100



IV SEMESTER B.Tech. (BME) DEGREE MAKE-UP EXAMINATIONS, JUNE 2017.

SUBJECT: BASIC CLINICAL SCIENCES-I (BME 2204) (REVISED CREDIT SYSTEM) Wednesday, 21st June 2017, 2 to 5 pm

Wednesday, 21st June 2017, 2 to 5 pm TIME: 3 HOURS

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)

QI)	write a note on basic pulse generator circuits and electrical aspects of cardiac pacemakers	10
Q2)	Write a note on (i) Atrial enlargement (ii) Doppler Echocardiography	5+5
Q3)	(i) Explain Indication, Test protocol, of tread mill stress test.	5+5
	(ii) Explain coronary stents and balloon types in detail.	
	PART-B. ANAESTHESIOLOGY (Max. Marks 40)	
Q1)	Define Boyles law and Charles law. Mention its application in anaesthesia.	10
Q2)	What is Beer Lamberts law? Write a note on pulseoximetry?	10
Q3)	Define saturated vapour pressure and boiling point? Breifly outline the working principle of tec 6 vaporisers.	10
Q4)	What is static electricity? How do you prevent the acculumation of static electricity in the operating room?	10

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

Q1)	Describe the principle, types and uses of Endoscopes in ENT.	3+3+4
Q2)	(i) Enumerate the powered instruments used in ENT.	4+3+3
	(ii) What is Cryosurgery? Describe its advantages and applications in ENT.	
Q3)	Enumerate the parts of the larynx. Write a note on physiology of larynx.	5+5

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