BME 3251 about:srcdoc

Exam Date & Time: 25-Jul-2022 (09:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

## SIXTH SEMESTER B.TECH MAKE-UP EXAMINATIONS, JULY 2022 RASIC CLINICAL SCIENCES II IRME 32511

**BASIC CLINICAL SCIENCES II [BME 3251]** Marks: 50 **Duration: 180 mins.** A Answer all the questions. Instructions to Candidates: Answer ALL questions Missing data may be suitably assumed Describe in brief mechanical flowmeters used in the anesthesia workstation. 1) (3) A) B) How does the thermocouple thermometer work? Explain. (3) C) Describe phonophoresis in brief. (4) 2) Describe in brief HME. (3) A) B) Explain the principle of FFA. (3) Enumerate any two uses of contact lenses. What are the advantages of contact lenses C) over spectacle lenses? **(4)** 3) What are the components of a slit lamp? What are the two types of slit lamp? (3) A) B) List any three differences between direct and indirect ophthalmoscope. (3) C) Explain the assistive devices related to communication disorder.

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**(4)** 

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	How do you think you can improve the cochlear implant from biomedical perspective? Expalin.	(3)
A)		
B)	Explain the rationale of biomedical engineers learning speech and hearing subjects.	(5)
C)	Name different lobes of Brain.	(2)
	Write a note on VEP and its application.	
		(3)
A)		
B)	Define Epilepsy and write a note on different waveforms in EEG.	(3)
C)	Write a short note on Carpal Tunnel Syndrome including role of electrophysiology in diagnosis.	(4)
	B) C) A) B)	Expalin.  A)  B) Explain the rationale of biomedical engineers learning speech and hearing subjects.  C) Name different lobes of Brain.  Write a note on VEP and its application.  A)  B) Define Epilepsy and write a note on different waveforms in EEG.  C) Write a short note on Carpal Tunnel Syndrome including role of electrophysiology in

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