Question Paper

Exam Date & Time: 01-Dec-2022 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.TECH END SEMESTER EXAMINATIONS, NOV/DEC 2022

BASIC CLINICAL SCIENCE - I [BME 3151]

Marks: 50 Duration: 180 mins.

Answer all the questions.

Instructions to Candidates:

- 1. Answer ALL questions
- 2. Draw diagrams wherever necessary

Missing data may be suitably assumed					
1)		List the ECG findings in Left bundle branch block.	(3)		
	A)				
	B)	Discuss the absolute contraindications of treadmill test.	(3)		
	C)	Elaborate the parts of conduction system of the heart.	(4)		
2)		Why is multidisciplinary approach essential for cancer management?	(3)		
	A)				
	B)	Which tumours are best suited for treatment with brachytherapy?	(3)		
	C)	Explain intracavitary brachytherapy for cancer of the cervix	(4)		
3)		Why is multidisciplinary approach essential for cancer management?	(3)		
	A)				
	B)	Why tungsten is selected as the target in x ray producing machines?	(3)		
	C)	Define Films. Enumerate the layers of Film with diagram. Explain sensitivity speck.	(4)		
4)		Describe X-ray tube construction with schematic diagram.	(5)		
	A)				
	B)	Name all the factors affecting Radiographic quality and describe any one of the factors.	(3)		
	C)	Explain different stages of normal healing of bone.	(2)		
5)		Enumerate different materials that can be used for making internal orthopaedic implants.	(3)		
	A)				
	В)	Classify the types of joints and dislocations in the body with examples of each.	(3)		

C)	Write a note on engineering consideration in the design of orthopaedic appliances for prosthesis of the joints.	(4)
	End	