

Q.P.
25290

M

T.E sem VI MI-1

(Solution set)

1.	(a)	Yes + reason	5
	(b)	No + reason	5
	(c)	Yes + reason	5
	(d)	Yes + reason	5
2	(a)	Description of digital radiography system with principle of operation, block diagram, explanation of each block in detail	10
	(b)	Description of General and Characteristic radiation with diagrams	10
3.	(a)	Atleast 8 technical specifications of X-ray machine	10
	(b)	Description of a block diagram the Digital Mammography system	10
4	(a)	List the various types of real time ultrasound scanners and Also, explain steering and focusing in detail with diagrams	5+5
	(b)	Explain Doppler shift principle with equations. And Explain Pulsed Doppler system used for blood flow measurements	05+05
5.	(a)	Description on different types of grids, collimators and filters (with diagrams wherever possible)	10
	(b)	Explain either 6 pulse or 12 pulse of three phase X-ray generator.	10
6.	(a)	Applications of Thermography	5
	(b)	Latent image formation in X-ray film	5
	(c)	Compton Effect	5
	(d)	B and TM Mode of Ultrasound Imaging	5
	(e)	Ultrasound Transducer	5

