

11. (a)	Describe the principle, construction and working of Gamma ray camera.	(10)	1	level 2		
	(OR)					
<b>(b)</b>	Describe the principle, construction and working of Photomultiplier tube.	(10)	1	2		
12. (a)	Discuss about various properties and applications of ceramics.	(10)	2	3		
(OR)						
<b>(b)</b>	Discuss in detail about the sensor and actuators.	(10)	2	3		

Q. Code: 453320

13. (a) Explain the principle and working of scanning electron microscope, with a (10) 3 3 neat diagram.

## (OR)

(b) Describe the construction and working of UV-Vis double beam (10) 3 3 spectrophotometer and mention its major applications.

## **PART-** C (1 x 10 = 10 Marks)

(Q.No.14 is compulsory)

		Marks	CO	RBT
				LEVEL
14.	Explain, in detail, about various ultrasonic scanners.	(10)	1	3

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