

## Seventh Semester B.E. Degree Examination, July/August 2021 **Non-Destructive Testing**

CONTRACTOR OF THE PARTY OF THE	2	Max. Marks: 1	.00
Tim	e: 3	IIIS.	
		Note: Answer any FIVE full questions.	
1	a. b.	Explain with neat sketch construction and working of Helium leak detector.  What are the steps involved in liquid penetrant testing? Explain with figures.  (10 M)	
2	a.	With the help of neat sketch, briefly explain following Electro – magnetization met used in Magnetic Particle Inspection (MPI).	thods
	b.	i) Contact current flow method (using metal prods).	Iarks) Iarks)
3	a.		viai ks)
	b.	Differentiate between absolute coil arrangement and differential coil arrangement. (10 M	Marks)
4	a. b.	Write detailed applications of microwave holography. Mention their advantages	Marks) es and Marks)
5	a. b.	Write a short note on Basic Equipment used in Otta Bonie Inspection	Marks) Marks)
6	a. b.	Evnlain the general characteristics of ultrasoffic hispochon.	Marks) Marks)
7	a.	disadvantages	es and Marks)
	b.	With neat sketches explain applications of radiography:  (i) Weldments  (ii) Tubular structures  (iii) Complex shapes.  (10)	Marks)
8	a.		Marks)

Write a note on:

Systems and techniques of Acoustic holography.

Applications of Acoustic holography.

(10 Marks)