CBCS SCHEME

-	ibrary, Mangalore				
USN					

15AU663

Sixth Semester B.E. Degree Examination, June/July 2019 **Non-Destructive Testing**

Time: 3 hrs. Max. Marks: 80

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	Λ	Note: Answer any FIVE full questions, choosing ONE full question from each module	e.
		Module-1	
1	a.		Marks)
	b.	Briefly explain the various non destructive methods which is used for detect the n	
			Marks)
		OR	
2			Marks)
	b.	Summarize the characteristics and applications of liquid penetrant. (08	Marks)
		Module-2	
3	a.	Explain with suitable sketch about the working principle of magnetic particle inspection	on.
			Marks)
	b.	Explain briefly about magnetic hysteresis. (08	Marks)
		OR	
4	a.	What are the prime advantages of radiographic examination during NDT? Draw the d	liaoram
7	a.		Marks)
	b.		Marks)
	0.		
		Module-3	
5	a.		Marks)
	b.	Explain the principle of computed tomography and applications of industrial CT. (08	Marks)
		OR	
6	a.	Illustrate with suitable sketch about types of thermography. (08	Marks)
	b.	Describe inspection method applications in thermography. (08	Marks)
		Module-4	
7	a.		graphy
			Marks)
	b./		Marks)
	G		
•		OR	alrag in
8	a.	Explain with a neat sketch about the types of eddy current instrument based on productive testing.	Marks)
	h		Marks)
	b.		Wai Ks)
		Module-5	
9	a.	Briefly explain with neat sketch about the types of transducer used in ultrasonic	
		***************************************	Marks)
	b.	Discuss the applications and limitations of ultrasonic testing. (08)	8 Marks)
		OR	
10	0 a.	Illustrate with suitable sketch about working principle of pulse echo method. (08	8 Marks)
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a. Illustrate with suitable sketch about working principle of pulse echo method.
b. Illustrate with neat sketch about reflection and transmission of sound waves. (08 Marks)

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