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Printed Pages : 3		Pages : 3
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-		ng Paper ID and Roll No. to be filled in your Answer Book) ID: 140858
		Roll No.
		B. Tech.
(SEM.	VIII) THEORY EXAMINATION, 2014-15
		NON-DESTRUCTIVE TESTING
Tin	ne : 3]	Hours] [Total Marks : 100
No		tempt all the questions. Assume missing data suitably.
1		empt any four of the following questions: 5x4=20
1	(a)	Differentiate between Destructive and Non Destructive testing methods.
	(b)	Discuss any Six defects inspected by Non Destructive testing methods.
	(c)	What do you mean by Non Destructive testing methods? Explain any one test method in brief-
	(d)	Differentiate between Manual inspection and Automated inspection.
	(e)	What do you mean by visual inspection and what are its types?
	(f)	Describe in brief about oil and whiting inspection

and Hammer Test.

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Attempt any two of the following questions:

10x2=20

3

Define Piezoelectricity with example of some

Explain the working principle of magnetic particle testing with a neat sketch. Also mention its scope.

 Leak test. Write short note on:

Zyglo fluorescent penetrant test.

<u>ඉ</u> Discuss in brief about skin effect, Direct method of magnetization and Wet suspension inspection.

Attempt any two of the following questions: (a) What are the advantages of gamma ray radiography over X- ray radiography?

Write short note on:

Compton back scatters technique. Image magnification technique

Mention recommendation followed in film handling.

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Attempt any two of the following questions:

10x2=20

Explain the wave propagation modes used in ultrasonic testing.

> How ultrasonic testing can help in medical diagnosis and inspecting welded joints? piezoelectric material.

Attempt any two of the following questions: 10x2=20

Explain the working principle of eddy current

Discuss the types of probes used in eddy current testing method.

Explain in brief about the rail inspection by eddy testing method. current testing method.

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