

SECTION-B

- Q2 Discuss most commonly used Non-Destructive methods. What are the selection criteria for any NDT Method?
- Q3 With neat sketches explain about the different inspection techniques in radiography testing (RT).
- Q4 Differentiate between direct and indirect method of magnetisation. Write the advantages and disadvantages of both methods.
- Q5 Explain about the working of ultrasonic transducer. Include necessary figures.
- Q6 Discuss the defect detection methods for plastics materials.

SECTION-C

- Q7 a) Explain the ultrasonic testing for roughness of surfaces.
b) Explain about any four checking devices used in magnetic particle inspection (MPI).
- Q8 a) Differentiate between X-ray radiography & Gamma Radiography Testing.
b) Explain the sperry flaw detection method for inspection of rails and tubes giving a neat sketch.
- Q9 a) A steel component is manufactured through forging. State the possible defects on its surface, subsurface and bulk and explain briefly the possible NDT techniques for their detection.
b) What is dye penetrant test? Explain cleaners, penetrants and developers.

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