**NDT Question Bank**

1. List out the importance of using NDT.
2. List advantage of visual inspection.
3. Discriminate destructive testing and non-destructive testing
4. List the developer use in LPT
5. Differentiate borescope and endoscope.
6. Define capillary action
7. List the materials to be used as a developer in liquid penetrant testing
8. Why magnetic particle test method is not suitable for testing of plastics?
9. Classify thermography testing.
10. State the basic principle involved in thermography testing.
11. List the disadvantage of eddy current inspection.
12. Differentiate straight beam and angle beam transducer.
13. What are types of sensors used in acoustic emission technique?
14. Discriminate transmission and pulse-echo methods in UT.
15. What is X-ray beam attenuation?
16. How xero radiography differs from film radiography?
17. What is X-ray beam attenuation?
18. Discuss about the application of visual inspection process with suitable case study.
19. Illustrate about discontinuities. Explain various types of discontinuities with examples.
20. Describe with suitable sketch about the casting defects during casting Process.
21. Identify the method used to inspect Pipe and piston head component and explain the steps involved during inspection
22. Explain with neat sketch about the principle of liquid penetrant test
23. List the advantages, limitations and applications of liquid penetrant test.
24. Explain in detail about the factors influencing the selection of NDT methods
25. Illustrate the methodologies used to inspect the gear tooth profile and explain details of inspection procedure.
26. Describe the following with neat sketch (i) Hall effect sensors in eddy current testing. (ii) SQUID sensor.
27. Assume a heat exchanger have many corrosion spots. Select appropriate non destructive testing methods for the detection of material loss due to corrosion
28. Select the appropriate NDT method to detect the temperature distribution of boiler in a thermal power plant and also explain principle involved in the process.
29. Explain the Eddy current principle of magnetic particle inspection testing with neat sketch.
30. List the advantage and limitation of magnetic particle inspection
31. Illustrate the principle of pulse echo method with neat sketch in ultrasonic testing method
32. Illustrate with neat sketch about the following (i) A-scan (ii) B-scan (ii) C-scan
33. Explain the principle of Acoustic emission test with neat sketch.
34. List the application Acoustic emission test
35. How X-rays are produced in radiographic testing? Briefly write about two methods of X-ray production.
36. Describe radiographic imaging techniques with suitable sketch and also write short notes on radiographic film.
37. List and explain the stages of film processing and development with flow diagram.