- xiv) Write briefly about weldability of aluminum.
- xv) What are the various codes related to welding.

SECTION-C

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain in detail various types of coatings and their functions.
- Q.4 Write short note on:
 - a) Basicity index
 - b) Role of flux in gradients.
- Q.5 Explain in detail the weldability test of stainless steel.
- Q.6 Explain the principle and procedure of ultrasonic test with a neat sketch.
- Q.7 Write short notes on:
 - a) Visual inspection
 - b) Coding of heavy coated electrodes.

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4th Sem. / Mech. Engg (F.T)

Subject: Fabrication Processes-I

Time: 3 Hrs. M.M.: 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What is a flux.
 - b) What is a fabrication process.
 - c) What is an electrode.
 - d) Classify electrodes.
 - e) Name any two type of coating used for welding electrode.
 - f) Name any two inert gases used in welding.
 - g) Define weldability
 - h) What is weld bead.
 - i) Define distortion.

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- j) What are residual stresses.
- What are the methods to control distortion in weldment.
- Why tensile test is done on weldment.
- m) What is the purpose of bend test on welding metals.
- n) What is the effect of welding fumes and gases.
- o) What are the safety precautions against electric shocks during welding.
- p) What are fillers.
- q) What is the uses of gas cylinder in welding.
- r) How can eyes and face be protected during welding.

SECTION-B

Note:Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) Classify different types of fluxes.
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- ii) Write short note on non corrosive flux.
- iii) Explain the characteristics of inert gases used in welding.
- iv) Explain the different aspects of welding.
- v) Why weldability test is performed.
- vi) What are the causes of residual stresses in weldment.
- Explain briefly dye penetrant test done on weldment.
- viii) Explain X ray inspection test for weldment.
- ix) Explain preheating method used for controlling the residual stresses.
- what precautions are to be observed while welding non ferrous metals.
- xi) Explain the effect produced by radiation during welding.
- xii) Explain the precautions to be taken against noise during welding.
- xiii) Write a short note on chromium and nickel in welding fumes.
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