

- ### SECTION-D
- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the principle and procedure of dye penetration with the help of diagram.
- Q.37 Explain the classification and coding of heavy coated electrodes.
- Q.38 Explain the different causes of distortion and residual stresses. Also discuss the methods to control them.

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**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

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- Q.5 A flux has the ability to dissolve
- a) Nitrides                      b) Oxides
  - c) Bromides                    d) None of these
- Q.6 The position in which it is easiest to weld is
- a) Flat                            b) Vertical
  - c) Horizontal                   d) overhead
- Q.7 A cylinder which contains acetylene will be painted
- a) Brown                        b) Black
  - c) Blue                          d) Maroon
- Q.8 What is the full form of GTAW?
- a) Groove tungsten arc welding
  - b) Grip tungsten arc welding
  - c) Gas tungsten arc welding
  - d) Galvanized tungsten arc welding
- Q.9 What protective equipment (PE) is used to protect hand from burn injury in welding
- a) Apron                        b) Googles
  - c) Protective shield        d) Leather gloves
- Q.10 The advantage of thermit welding is.
- a) All parts molten at the same time
  - b) Weld cools uniformly
  - c) Minimum residual stresses
  - d) All of the above

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is basicity index?
- Q.12 Write the use of flux
- Q.13 What is residual stress?
- Q.14 Define weldment
- Q.15 What is full form of PPE
- Q.16 What do you mean by Visual inspection ?
- Q.17 Name two protection equipment.
- Q.18 Write the use of electrodes.
- Q.19 Define electrode coating.
- Q.20 What is the use of gas cylinders?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss the various types of welding.
- Q.22 list the various equipments needed for performing welding.
- Q.23 Give functions of consumable electrodes.
- Q.24 Write a short note on Gas welding.
- Q.25 Give advantages and objectives of inspection.
- Q.26 Explain different applications of welding.