

- Q.27 Discuss the importance of using eye and face protection equipment during welding and cutting operation.
- Q.28 Discuss the various types of codes and practices related to welding.
- Q.29 Classify the various types of electrodes.
- Q.30 Write a short note on Weldability.
- Q.31 Discuss various types of personal protective equipments used in welding.
- Q.32 Explain the various methods of Welding.
- Q.33 Discuss the tensile and bend test of a weldment.
- Q.34 Discuss the characteristics of inert gas used in welding.
- Q.35 What factors are to be considered for safe storage of gas cylinder.

#### 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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**4th Sem / Branch : Mech. Engg (Fabrication Tech)  
Subject:- Fabrication Processes-I**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Which is the safest cloth used in welding workshop?
- a) Silk
  - b) Leather
  - c) Cotton
  - d) Nylon
- Q.2 In arc welding, one should protect his eyes by using\_\_\_\_\_
- a) Dark glass screen
  - b) Sun glass
  - c) Mask
  - d) Clear glass
- Q.3 What will happen if the welding floor is wet?
- a) Eye injury
  - b) Burn injury
  - c) Electric shock
  - d) Cuts on the leg
- Q.4 Which tool is used to remove slag?
- a) Ball pin hammer
  - b) Earth clamp
  - c) Chipping hammer
  - d) Wire brush

- 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.