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# **3rd Sem / Auto, Mech, Prod, T&D, GE, CNC, CAD/CAM, Found. & Forg, Metallurgy, Print Making Tech., Mech (Ad. Manu. Tech.), Mech Engg (Fabrication Tech). Mech. Engg. (Prod).**

## **Subject:- Workshop Technology - I**

Time : 3Hrs. M.M. : 100

## **SECTION-A**

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

- Q.1 Welding is used for making

  - a) Permanent joints      b) Temporary joints
  - c) Both A and B            d) None of them

- Q.2 Filler metal is used

  - a) Gas welding
  - b) Seam Welding
  - c) Spot welding
  - d) Electric resistance welding

- Q.3 Electrode is

  - a) Non-metal rods
  - b) Nickel plated rods
  - c) Flux coated metal rods
  - d) All of above

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## **SECTION-B**

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

- Q.11 What is seam welding?
- Q.12 Define Carburizing flame.
- Q.13 Write two limitations of welding.
- Q.14 Write functions of core box.
- Q.15 Enlist various pattern allowances.
- Q.16 The cavity produced by the pattern in the compact sand is known as \_\_\_\_\_.
- Q.17 Write any two rolling defects.
- Q.18 Name any one additive used in moulding sand.
- Q.19 Name any two materials that are used in making pattern?
- Q.20 Plastics are the \_\_\_\_\_ materials.

## **SECTION-C**

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

- Q.21 Differentiate between A.C. arc welding and D.C. arc welding.
- Q.22 Explain any five applications of gas welding.
- Q.23 Write five advantages of electron beam welding?
- Q.24 What is rightward welding?

Q.25 Write five advantages of die casting.

Q.26 Write the function of cores and core prints?

Q.27 What are five advantages of wood pattern?

Q.28 Explain any five casting defects?

Q.29 Write a brief note on riser location?

Q.30 Explain in brief closed die forging.

Q.31 Explain thread rolling with the help of a sketch.

Q.32 Explain any two rolling mills.

Q.33 Explain the molding machine process.

Q.34 Write any five limitations of plastics.

Q.35 Elaborate in brief the industrial use of plastics.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain any five press operations with neat sketch.
- Q.37 Explain with neat sketch, construction and working of cupola furnace.
- Q.38 Describe in brief welding defects and their testing methods.