

WORKSHOP TECHNOLOGY
3rd Exam/Mech./Auto/0593/Nov'24
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Fill in the blanks.

15x1=15

- a. Submerged Arc welding is suitable for _____
- b. Pressure is used essentially in _____ Welding.
- c. The bottom part of the flask is called _____
- d. The sand in its natural or moist state is called _____ sand.
- e. The metals like tin, lead are hot at temperature around _____
- f. The core box is a pattern used for making _____
- g. _____ material has the least shrinkage allowance in casting.
- h. The material used for coating the electrode is called _____
- i. Permeability is the property to permit _____ From the moulding sand.
- j. _____ polarity is used for faster deposition rate.
- k. The material used for wire drawing should have high _____
- l. The _____ type of force applied through die in the forging.
- m. For overhead welding the polarity recommended is _____
- n. _____ are used to directional solidification in casting.
- o. Core stand on _____ during casting process.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Explain various types of flames used in gas welding.
- ii. What do you mean by Straight and Reverse polarity with neat sketches.
- iii. Differentiate between Direct and Indirect Extrusion.
- iv. What is resistance welding, explain Spot welding.
- v. What do you mean by gating system?
- vi. Explain Welding Techniques with diagrams.
- vii. Write a short note on forging process.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Explain in detail MIG and TIG with details.
- b. Explain with neat sketch hot chamber and Cold chamber die casting.
- c. Explain different types of casting defects.
- d. Explain various types of rolling mills with neat diagram.
- e. Explain the working of projection welding its merits, demerits & applications.