

S.B. Roll. No.....

WORKSHOP TECHNOLOGY
3rd Exam/Mech./Auto/0593/Jun'2022
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Fill in the blanks.

15x1=15

- a. Grey cast iron is best welded by_____
- b. Material used for coating the electrode is called_____
- c. Gases used in TIG welding are_____.
- d. Spatter in welding occurs due to_____
- e. The most common used pattern material is_____.
- f. Cores are well supported by_____.
- g. Drag is defined as _____part of the moulding flask.
- h. The material having least shrinkage allowance is_____
- i. Chaplets are used in casting process to_____
- j. Chills are used in casting moulds to achieve_____.
- k. Two or more cutting operations are done simultaneously on_____.
- l. The mode of deformation of metal during spinning is_____
- m. The ductility of work hardened metal_____
- n. Bakelite is trade name of_____.
- o. Bottles are made by the process_____.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. What do you mean by straight and reverse polarity?
- ii. Explain principle of MIG Welding with sketch.
- iii. Write the names of different additives used in polymers.
- iv. Explain the terms Permeability, Cohesiveness and Collapsibility of sand.
- v. Explain different types of flames with neat and clean sketch.
- vi. Write note on Injection moulding.
- vii. Explain process of Bench moulding.
- viii. Write the characteristics of good core.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Explain principle, advantages and applications of spot welding.
- b. Name different types of Dies, explain progressive die with neat and clean sketch.
- c. Explain principle, advantages and applications of Electron beam welding.
- d. Name different types of Pattern, Explain Gated and Skeleton pattern.
- e. Explain briefly various types of press operations.