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

WORKSHOP TECHNOLOGY
3rd Exam/Mech./Auto/0593/Dec'22
(For 2018 Batch Onwards)

Duration: 3Hrs. **M.Marks:75**

SECTION-A

Q1. Fill in the blanks. **15x1=15**

a. Acetylene gas is stored in cylinder in the form of_____
b. Material used for coating the electrode is called_____
c. Gases used in TIG welding are_____
d. The most common used pattern material is_____
e. Cores are well supported by_____
f. The liquid shrinkage is compensated by providing _____to the mould.
g. Contraction while solidification is compensated by_____
h. The material used to reduce shrinkage cavity is_____
i. Hollow symmetrical and unsymmetrical parts are cast by_____
j. Precision casting is another name of_____
k. The ductility of work hardened metal_____
l. The material used for wire drawing must have high_____
m. Bottles are made by the process of_____
n. The process of making plastic products without application of pressure is called_____
o. The process of linking of monomers together is called_____

SECTION-B

Q2. Attempt any six questions. **6x5=30**

i. What do you mean by arc blow? What are the advantages of a.c. arc welding?
ii. Comment on resistance welding.
iii. Explain split pattern, match plate pattern and cope and drag pattern.
iv. Explain various pattern materials and their applications.
v. What are the advantages of casting over other manufacturing processes?
vi. Write remedies to minimize hot tears, cold cracks and warpage.
vii. Define the terms roll bending, stretch forming and spinning.
viii. Give some important applications of plastics.

SECTION-C

Q3. Attempt any three questions. **3x10=30**

a. What are the commonly observed welding defects? Give the causes of each defect.
b. Give the short note on the following: a) Split pattern b) Sweep pattern c) Match plate pattern d) Skeleton pattern e) Loose piece pattern
c. What are the different types of casting defects? How they can be minimized?
d. Explain any five press operations with neat sketch.
e. Explain Injection moulding and Compression moulding with neat and clean diagrams.