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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 : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Welding is used for making (CO-1)
a) Permanent joint b) Temporary joint
c) Both A & B d) None of the above
- Q.2 Filler metal is used (CO-1)
a) Gas welding
b) Seam Welding
c) Spot Welding
d) Electric resistance Welding
- Q.3 IN Thermit welding, temperature produced by thermit reaction is nearly (CO-1)
a) 1500 Degree Celsius
b) 2500 Degree Celsius
c) 3000 Degree Celsius
d) 5000 Degree Celsius
- Q.4 In centrifugal casting, core is made of (CO-2)
a) Sand b) Ferrous metal
c) None ferrous metal d) None of the above

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- Q.5 The material widely used for making pattern is (CO-2)
a) Wood b) Cast iron
c) Brass d) Plastic
- Q.6 The design of riser is based on (CO-2)
a) Continuity equation
b) Bernaullis theorem
c) Gibbs rule
d) Chvorinov rule
- Q.7 Runners are horizontal channels. Similarly, the vertical channels are (CO-2)
a) Vent b) Gate
c) Sprue d) Swab
- Q.8 Which of the following is not a casting process? (CO-2)
a) Shell casting
b) Die casting
c) Carbon dioxide mould casting
d) Floor molding
- Q.9 The function of risers is (CO-2)
a) To support core
b) To store molten metal
c) To make mould cavity
d) All of above
- Q.10 Which of the following is a forming operation? (CO-3)
a) Bending b) Drawing
c) Squeezing d) All of the above

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SECTION-B

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

- Q.11 Electroslag welding is a type of _____ welding. (CO-1)
- Q.12 Name two types of arc welding machines? (CO-1)
- Q.13 Write the full form of MIG? (CO-1)
- Q.14 Write the any two applications of spot welding. (CO-1)
- Q.15 Acetylene gas is stored in cylinder in _____ form. (CO-1)
- Q.16 _____ welding uses non consumable electrodes. (CO-1)
- Q.17 The lower part of moulding box is called _____. (CO-2)
- Q.18 Name the pattern allowance which ensures easy withdrawal of pattern from mould. (CO-2)
- Q.19 Compression moulding is mostly used for _____ Plastics. (CO-4)
- Q.20 Bottles are generally manufactured by _____ moulding. (CO-4)

SECTION-C

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

- Q.21 Differentiate between welding and weldability. (CO-1)
- Q.22 Name any five major components of press? (CO-3)
- Q.23 Write any five applications of gas welding. (CO-1)
- Q.24 Explain welding defects porosity and Blow Holes. (CO-1)

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- Q.25 Write the advantages of die casting. (CO-2)
- Q.26 Draw a labelled sketch to show ordinary gating system. (CO-2)
- Q.27 Explain working of squeeze machine in mould making. (CO-2)
- Q.28 Differentiate between TIG and MIG welding. (CO-1)
- Q.29 Explain different types of moulding flasks? (CO-2)
- Q.30 Explain three high mill rolling with the help of a sketch. (CO-3)
- Q.31 Define (a) shearing (b) punching. (CO-3)
- Q.32 Explain the process of wire drawing. (CO-3)
- Q.33 Explain machine allowance and draft allowance. (CO-2)
- Q.34 Explain Hot chamber die casting machine with a neat sketch. (CO-2)
- Q.35 Write in brief the limitations and potentials in the use of plastics. (CO-4)

SECTION-D

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

- Q.36 Explain the principle, working, advantages, disadvantages and application of TIG welding. (CO-1)
- Q.37 Discuss any ten casting defects. (CO-2)
- Q.38 Differentiate between thermosetting plastics and thermo plastic. (CO-4)

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