

No. of Printed Pages : 4
Roll No.

180333/171733/
121733/031733

**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) Non ferrous metal
- d) None of the above

- 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

(1)

180333/171733/
121733/031733

(2)

180333/171733/
121733/031733

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)

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)