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 : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Filler metal is used in (CO1)

a) Gas Welding
b) Seam Welding
c) Spot Welding
d) Electric resistance Welding

Q.2 Electrode is (CO1)

a) Non-metal rods
b) Nickel plated rods
c) Flux coated metal rods
d) All of above

Q.3 Polystyrene at room temperature is (CO1)

a) Ductile b) Brittle
c) Malleable d) Soft

Q.4 Contraction while solidification is compensated by (CO2)

a) Gates b) Runners
c) Ladle d) Risers

Q.5 Which of the following is not a casting defect?(CO2)

a) Hot tears b) Blow holes
c) Scale d) Porosity

Q.6 The material widely used for making patten is(CO2)

a) Wood b) Cast iron
c) Brass d) Plastic

Q.7 In hot chamber die casting, is obtained by (CO2)

a) Compressed air b) Steam
c) Gas d) None of the above

Q.8 The sand used for making Cores is (CO2)

a) Green sand b) Dry sand
c) Loam sand d) Parting sand

Q.9 The surface to be left unmachined is marked on pattern by (CO2)

a) Red colour b) Black colour
c) Yellow colour d) Pink colour

Q.10 Extrusion dies are made of (CO3)

a) Cast iron b) Mild steel
c) Tungsten carbide d) H.S.S.

SECTION-B

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

Q.11 Oxy-acetylene gas welding is done by the _____ flame. (CO1)

Q.12 Name two types of resistance welding (CO1)

Q.13 _____is used to make cavity in the casting. (CO2)

Q.14 In moulding, the top flask is known as_____ (CO2)

Q.15 Name any two types of dies. (CO2)

Q.16 Cope and drag pattern is a form of _____ (CO2)

Q.17 Wax is used for_____ casting process. (CO2)

Q.18 Write any two rolling defects. (CO3)

Q.19 Compression moulding is mostly used for_____ Plastics. (CO4)

Q.20 Name two types of plastics. (CO4)

SECTION-C

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

Q.21 Write the five advantages of welding. (CO1)

Q.22 Give any five differences between A.C. are welding and D.C arc welding. (CO1)

Q.23 Explain Seam Welding with sketch. (CO1)

Q.24 Differentiate between TIG and MIG welding. (CO1)

Q.25 What is a core box? Explain any one with neat sketch. (CO2)

Q.26 Discuss different types of risers? (CO2)

Q.27 Explain magnetic particle inspection method for testing of casting defects. (CO2)

Q.28 Name four desirable properties of moulding sand and explain any one. (CO2)

Q.29 Name any eight hand tools used in mould making. (CO2)

Q.30 Explain the requirements of a riser. (CO2)

Q.31 Give any five important characteristics of natural sand. (CO2)

Q.32 Define any five press operations. (CO3)

Q.33 Explain any two rolling mills. (CO3)

Q.34 Write the general properties of plastics . (CO4)

Q.35 Write any five limitations of use in plastics? (CO4)

SECTION-D

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

Q.36 Explain the principle, working, advantages, disadvantages and application of MIG welding. (CO1)

Q.37 Discuss any five press operation with the help of diagrams. (CO3)

Q.38 Explain the process of pipe and tube drawing with diagram? (CO3)