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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 : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Welding is used for making
a) Permanent joints b) Temporary joints
c) Both A and B d) None of them
- Q.2 Filler metal is used
a) Gas welding
b) Seam Welding
c) Spot welding
d) Electric resistance welding
- Q.3 Electrode is
a) Non-metal rods
b) Nickel plated rods
c) Flux coated metal rods
d) All of above

- Q.4 Runners are horizontal channels, Similarly, the vertical channels are
a) Vent b) Gate
c) Sprue d) Swab
- Q.5 In centrifugal casting, core is made of
a) Sand b) Ferrous metal
c) Non-ferrous metal d) None of the above
- Q.6 In a four high rolling mill, smaller rolls are called
a) Working rolls b) Back up rolls
c) Guide rolls d) Main rolls
- Q.7 The sand used for making cores is
a) Green sand b) Dry sand
c) Loam sand d) Parting sand
- Q.8 To lift heavy and larger size pattern we use
a) Rapping plates b) Gaggers
c) Dowel pins d) None of them
- Q.9 Extrusion dies are made of
a) Cast iron b) Mild steel
c) Tungsten carbide d) H.S.S
- Q.10 Polystyrene at room temperature is
a) Ductile b) Brittle
c) Malleable d) Soft

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SECTION-B

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

- Q.11 What is seam welding?
- Q.12 Define Carburizing flame.
- Q.13 Write two limitations of welding.
- Q.14 Write functions of core box.
- Q.15 Enlist various pattern allowances.
- Q.16 The cavity produces by the pattern in the compact sand is known as _____.
- Q.17 Write any two rolling defects.
- Q.18 Name any one additive used in moulding sand.
- Q.19 Name any two materials that are used in making pattern?
- Q.20 Plastics are the _____ materials.

SECTION-C

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

- Q.21 Differentiate between A.C. arc welding and D.C. arc welding.
- Q.22 Explain any five applications of gas welding.
- Q.23 Write five advantages of electron beam welding?
- Q.24 What is rightward welding?

- Q.25 Write five advantages of die casting.
- Q.26 Write the function of cores and core prints?
- Q.27 What are five advantage of wood pattern?
- Q.28 Explain any five casting defects?
- Q.29 Write a brief note on riser location?
- Q.30 Explain in brief closed die forging.
- Q.31 Explain thread rolling with the help of a sketch.
- Q.32 Explain any two rolling mills.
- Q.33 Explain the molding machine process.
- Q.34 Write any five limitations of plastics.
- Q.35 Elaborate in brief the industrial use of plastics.

SECTION-D

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

- Q.36 Explain any five press operations with neat sketch.
- Q.37 Explain with neat sketch, construction and working of cupola furnace.
- Q.38 Describe in brief welding defects and their testing methods.