

- Q.25 Explain the principle of operation of spot welding. with neat diagrams
- Q.26 Write the advantages & applications of laser beam welding.
- Q.27 Explain any four properties of molding sand.
- Q.28 Write the advantages & disadvantages of top gating.
- Q.29 Explain with neat sketch working of electric induction furnace.
- Q.30 Name the various types of casting defects.
- Q.31 Explain Various types of Die in brief.
- Q.32 Name the various types of press operations.
- Q.33 Write the advantages of forging.
- Q.34 Explain the theory of rolling.
- Q.35 Write the general properties of plastics.

SECTION-D

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

- Q.36 Compare the TIG & MIG welding.
- Q.37 Explain the different allowances which are provided on patterns.
- Q.38 Explain centrifugal casting with the help of neat sketch. Write its advantages & applications.

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**3rd Sem / Mech. Engg. (MSIL)
Subject:- Workshop Technology-I**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The process of joining similar metals without the use of filter metal is called.
- Heterogeneous welding
 - Autogeneous welding
 - Homogeneous welding
 - None of these
- Q.2 The standard colour of acetylene gas cylinder for oxy-acetylene gas welding is.
- Red
 - Maroon
 - Brown
 - None of these
- Q.3 In gas welding, most commonly used flame is.
- Neutral flame
 - Oxidizing flame
 - Carburizing flame
 - None of these
- Q.4 In arc welding, the source of heat is.
- Oxygen acetylene gas
 - Electric arc
 - Chemical reaction
 - None of these

Q.5 Which is not a welding defect?

- a) Slag inclusion b) Blow holes
- c) Hot tears d) Distortion

Q.6 TIG welding is best suited for welding.

- a) Aluminium b) Mild steel
- c) Stainless steel d) None of these

Q.7 The surface to be left un-machined is marked on pattern by.

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

Q.8 The sand used for making cores is.

- a) Green sand b) Dry sand
- c) Loam sand d) Oil sand

Q.9 The method used for casting of non-ferrous metal is.

- a) Centrifugal casting b) Sand molding
- c) Die casting d) None of these

Q.10 When the blank is fed on press machine, its location is ensured by.

- a) Pilot b) Bolster plate
- c) Pitman d) Traddle

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

Q.11 Define weld bead.

Q.12 Define the porosity.

Q.13 Write the full form of LASER.

Q.14 In which casting process, wax patterns are used?

Q.15 What is the purpose of adding a binder in the molding sand?

Q.16 Name the different types of risers.

Q.17 What is the use of Cupola Furnace.

Q.18 Production of raised or projected designs on a surface is known as _____.

Q.19 Open die forging is also known as _____.

Q.20 The process of passing a piece of metal between two revolving cylinders is called _____.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

Q.21 Write the advantages of right ward welding over left ward welding.

Q.22 Write the application of gas welding.

Q.23 Explain any five welding defects.

Q.24 What is an electrode? What are its different types?