

- 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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MSIL121733/031733

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 filler 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. (10x1=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 Furnance.
- 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. (12x5=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?