

- Q.25 Name different types of resistance welding.
- Q.26 Differentiate between A.C. arc welding and D.C. arc welding.
- Q.27 Write the application of gas welding.
- Q.28 Write the advantages and applications TIG welding (any four)
- Q.29 Write the function of cores.
- Q.30 Explain bench moulding with neat sketch.
- Q.31 Write the applications of die casting (any five)
- Q.32 Write the requirements of a gating system.
- Q.33 Write the causes and remedies of shrinkage of casting.
- Q.34 Classify the presses.
- Q.35 Write a short note on swaging.

SECTION-D

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

- Q.36 Explain the principle of operation of spot welding and its applications.
- Q.37 Explain with neat sketch, construction and working of pit furnace.
- Q.38 Explain any ten casting defects.

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MSIL-121733/031733

Mechanical Engineering 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 the above
- Q.2 The standard colour of hoses for oxygen gas in oxy-acetylene gas welding is.
a) Red b) Black
c) Brown d) None of the above
- Q.3 Filler metal is used in.
a) Gas welding
b) Electric resistance welding
c) Seam welding
d) Spot welding
- Q.4 Electrodes are
a) Non-metal rods b) Nickel plated rods

- c) Flux coated metal rods d) All of the above

Q.5 A welder spatter is a/an

- a) Welding defect
b) Flux
c) Filler material used in welding
d) Electrode

Q.6 Resistance welding is a

- a) Pressure welding b) Forge welding
c) Fusion welding d) None of the above

Q.7 Chaplets are made by

- a) Metals b) Wood
c) Core sand d) Silica

Q.8 Loose piece pattern are held with

- a) Dowels b) Cores
c) Binders d) Nails

Q.9 The sand used for making cores is

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

Q.10 Which of the following is a cutting operation?

- a) Lancing b) Splitting
c) Punching d) All of the above

SECTION-B

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

Q.11 Spot welding is a type of _____ welding.

Q.12 Oxy-acetylene gas welding is done by the _____ flame.

Q.13 In arc welding, the source of heat is _____

Q.14 Seam welding is a _____

Q.15 The material widely used for making pattern is _____

Q.16 Define moulding.

Q.17 The lower part of moulding box is called _____.

Q.18 Hot chamber is a type of _____ casting.

Q.19 Extrusion dies are made of _____

Q.20 The full form of P.V.C. is .

SECTION-C

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

Q.21 Define deposition rate.

Q.22 Define types of gas flames.

Q.23 Define arc length.

Q.24 Define polarity in arc welding.