

- 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.

No. of Printed Pages : 4  
Roll No. ....

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.