

- Q.22 Write the advantages of Right hand welding over Left hand welding.
- Q.23 Explain different types of gas flames.
- Q.24 Compare the AC arc welding and DC arc welding.
- Q.25 What are the functions of coating on the electrode?
- Q.26 Explain spot welding.
- Q.27 Write the advantages and disadvantages of MIG welding.
- Q.28 Describe wire drawing process.
- Q.29 Define Permeability test of moulding sand.
- Q.30 Describe hot chamber die casting machine.
- Q.31 Define the main elements of a gating system.
- Q.32 Explain the working of electric induction furnace with the help of neat sketch.
- Q.33 Explain any five press operations.
- Q.34 Write the advantages and disadvantages of forging
- Q.35 Define the principle of rolling process.

#### **SECTION-D**

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

- Q.36 Explain various types of patterns, briefly.
- Q.37 Explain any ten casting defects, their causes and remedies.
- Q.38 Explain the principle of arc welding. Write its advantages, disadvantages and applications

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**3rd Sem. / Mech. Engg. (MSIL)**

**Subject : Workshop Technology - I**

Time : 3 Hrs.

M.M. : 100

#### **SECTION-A**

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

- Q.1 In oxy-acetylene gas welding, if oxygen burnt with excess acetylene, the flame produced is
- Carburising flame
  - Oxidising flame
  - Neutral flame
  - None of the above
- Q.2 In reverse polarity
- Work is negative and electrode holder is earthed
  - Electrode holder is positive and work is negative
  - Electrode holder is negative and work is positive
  - None of the above

- Q.3 In case of submerged arc welding, electrodes upto which diameter may be used?
- a) 30mm
  - b) 25mm
  - c) 20mm
  - d) 12mm
- Q.4 In thermit, welding, temperature produced by thermit reaction is nearly
- a)  $1500^{\circ}\text{C}$
  - b)  $2500^{\circ}\text{C}$
  - c)  $3000^{\circ}\text{C}$
  - d)  $5000^{\circ}\text{C}$
- Q.5 Cope and drag pattern is a form of
- a) Match plate pattern
  - b) Loose pattern
  - c) Split pattern
  - d) Sweep pattern
- Q.6 Green sand is a mixture of
- a) 30% sand and 70% clay
  - b) 50% sand and 50% clay
  - c) 70% sand and 30% clay
  - d) 90% sand and 10% clay
- Q.7 In centrifugal casting, core is made of
- a) Sand
  - b) Ferrous metal
  - c) Non-ferrous metal
  - d) None of the above
- Q.8 When blank is fed on press machine, its location is ensured by
- a) Pilot
  - b) Bolster plate
  - c) Pitman
  - d) Traddle

- Q.9 In a four high rolling mill, bigger rolls are called
- a) Working rolls
  - b) Back up rolls
  - c) Main rolls
  - d) Guide rolls
- Q.10 P.V.C. is
- a) Elastomer
  - (b) Non-inflammable
  - (c) Inflammable
  - (d) None of the above

### **SECTION-B**

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

- Q.11 Define the deposition rate.
- Q.12 Oxy-acetylene gas welding is done by the \_\_\_\_\_ flame
- Q.13 Name two types of arc welding.
- Q.14 Plasma is a stream of \_\_\_\_\_ particles.
- Q.15 Define the core.
- Q.16 What is core chaplet?
- Q.17 Define the moulding.
- Q.18 Define the pressure die casting.
- Q.19 Define the blanking.
- Q.20 Open die forging is also known as \_\_\_\_\_.

### **SECTION-C**

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

- Q.21 Enlist the various welding processes.