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**3rd Sem / 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 Acetylene is stored in the cylinders in. (CO1)  
a) Pure form                      b) Dissolving in acetone  
c) Vapor form                    d) None of the above
- Q.2 The standard colour of hoses for oxygen gas in oxy-acetylene gas welding is. (CO1)  
a) Red                              b) Black  
c) Brown                          d) None of the above
- Q.3 The flame at the tip of oxy-acetylene torch is ignited by. (CO2)  
a) Candle                          b) Match stick  
c) Spark lighter                  d) All of the above
- Q.4 Electrodes are (CO2)  
a) Non-metal rods  
b) Nickel plated rods  
c) Flux coated metal rods  
d) All of the above

- Q.5 In automobile industries, welding generally used in (CO3)  
a) Gas welding                      b) MIG welding  
c) Spot welding                    d) All of the above

- Q.6 Resistance welding is a (CO4)  
a) Pressure welding                b) Forge welding  
c) Fusion welding                  d) None of the above

- Q.7 Chaplets are made by (CO5)  
a) Metals                            b) Wood  
c) core sand                        d) Silica

- Q.8 Loose piece pattern are held with (CO6)  
a) Dowels                            b) Cores  
c) Binders                          d) Nails

- Q.9 The sand used for making cores is (CO7)  
a) Green sand                        b) Dry sand  
c) Loam sand                        d) Oil sand

- Q.10 Which of the following is a cutting operation ?(CO9)

- 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 Write the other name of pressure welding. (CO1)

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- Q.12 Acetylene gas is stored in cylinder in \_\_\_\_\_ form. (CO1)
- Q.13 Tensile test is performed on \_\_\_\_\_ machine. (CO2)
- Q.14 Resistance welding is a \_\_\_\_\_. (CO2)
- Q.15 Full form of T.I.G. (CO3)
- Q.16 Cope and drag pattern is a form of \_\_\_\_\_. (CO3)
- Q.17 The mould material in plaster mould is \_\_\_\_\_. (CO4)
- Q.18 Hot chamber is a type \_\_\_\_\_ casting. (CO5)
- Q.19 Open die forging is also known as \_\_\_\_\_. (CO8)
- Q.20 Name two types rolling. (CO7)

### SECTION-C

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

- Q.21 What is the function of coating on electrodes?(CO1)
- Q.22 Write the advantages of arc welding. (CO1)
- Q.23 Write the advantages MIG welding (any four).(CO2)
- Q.24 Write the function of pattern (any five). (CO3)
- Q.25 Explain any four properties of moulding sand. (CO3)
- Q.26 Explain, in brief centrifugal casting and its types. (CO4)
- Q.27 Write the requirements of a riser. (CO5)

- Q.28 Write the causes and remedies of porosity in casting. (CO6)
- Q.29 Write the advantages of forging. (CO7)
- Q.30 Write the general properties of plastics. (CO8)
- Q.31 Name two types of arc welding machines. (CO2)
- Q.32 Write any four rolling defects. (CO8)
- Q.33 Write the advantages of forging. (CO7)
- Q.34 Define Plastics. Explain different types of plastics (CO12)
- Q.35 Write the general properties of plastics. (CO12)

### SECTION-D

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

- Q.36 Write a short note on (CO2)
- i) Robotic welding
- ii) Seam welding.
- Q.37 Explain with a neat sketch, construction and working of cupola furnace. (CO6)
- Q.38 Explain hot and cold rolling with neat sketch. (CO12)

(**Note:** Course outcome/CO is for office use only)