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3rd Sem / Auto, Mech, Prod, T & D, GE, CNC, CAD/CAM, Found.  
& Forg, Metallurgy, Print Making Tech., Mech (Ad. Manu. Tech.),  
Mech Engg (Fabrication Tech), Mech. Engg.(Prod.)

**Subject:- Workshop Technology I**

Time : 3Hrs.    M.M. : 100

**SECTION-A**

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

- Q.1 Filler metal is used in  
a) Gas welding  
b) Electric resistance welding  
c) Seam welding  
d) Spot welding
- Q.2 Electrodes are  
a) None-metal rods.  
b) Nickel plated rods.  
c) Flux coated metal rods  
d) All of the above
- Q.3 In automobile industries, welding generally used in  
a) Gas welding                      b) MIG welding  
c) Spot welding                      d) None of the above
- Q.4 Which of the following gases in used in MIG?  
a) Argon                                  b) Hydrogen  
c) Nitrogen                              d) Carbon dioxide
- Q.5 Green colour on patterns is used for  
a) Pattern joint                      b) Stop offs  
c) Seat for loose piece/core prints  
d) None of the above
- 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

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### SECTION-B

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

- Q.11 Forge welding is a type of \_\_\_\_\_ welding.
- Q.12 Define weld bead.
- Q.13 What is oxidizing flame?
- Q.14 Define arc crater.
- Q.15 In resistance welding \_\_\_\_\_ filler metal is used.
- Q.16 What is core chaplet?
- Q.17 Define moulding.
- Q.18 Define pressure die casting.
- Q.19 Define 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. (12x5=60)

- Q.21 Explain injection moulding.
- Q.22 Enlist the application of gas welding.
- Q.23 Name the various equipment and accessories used in arc welding.
- Q.24 Enlist the various properties of flux added to the weld.

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- Q.25 Write the advantages & applications of resistance welding?
- Q.26 Differentiate between TIG & MIG welding.
- Q.27 Explain the various pattern allowances.
- 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 working of electric induction furnace with the help of neat sketch.
- Q.33 Explain any five press operations.
- Q.34 Write the advantages & disadvantages of forging.
- Q.35 Define principle of rolling process.

### SECTION-D

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

- Q.36 Define mould and explain various types of moulds.
- 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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