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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 is used in MIG?  
a) Argon      b) Hydrogen  
c) Nitrogen      d) Carbon dioxide

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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