

No. of Printed Pages : 4

Roll No. .... 180333/171733/  
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**3rd. Sem. / Mechanical, Auto, Prod., T&D, GE,  
CNC, CAD / CAM, Found & Forg.,  
Metallurgy, Print Making Tech.  
Subject : Workshop Technology-1**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

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

- Q.1 Forged welding is a type of \_\_\_\_\_ welding. (CO-1)
- Q.2 Draw symbol of flash. (CO-1)
- Q.3 Full form of TIG welding is \_\_\_\_\_ (CO-3)
- Q.4 In gas welding, most commonly used flame is \_\_\_\_\_ (Neutral/carburising flame) (CO-1)
- Q.5 \_\_\_\_\_ is used to make a cavity in the mould. (CO-5)
- Q.6 Hot chamber is a type of \_\_\_\_\_ casting. (CO-9)
- Q.7 What is the use of core? (CO-6)

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Q.8 Define mould. (CO-7)

Q.9 Write the use of rammer. (CO-8)

Q.10 Bottles are generally manufactured by \_\_\_\_\_ moulding. (CO-13)

### SECTION-B

**Note:** Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 Define straight polarity. (CO-1)
- Q.12 Write some applications of projection welding. (CO-1)
- Q.13 What is embossing? (CO-13)
- Q.14 Define refractoriness of sand. (CO-8)
- Q.15 Name four woods which are used for making patterns. (CO-5)
- Q.16 Define MIG welding. (CO-3)
- Q.17 What is the function of flux in welding. (CO-1)
- Q.18 Write the limitations of use of plastic. (CO-13)
- Q.19 Write functions of corebox. (CO-9)

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- Q.20 Enlist different types of rolling mills. (CO-13)  
Q.21 Enlist various pattern allowances. (CO-5)  
Q.22 What are the elements of a gating system?  
(CO-7)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Explain the working principle of gas welding.  
(CO-1)  
Q.24 Differentiate between TIG and MIG welding.  
(CO-3)  
Q.25 Explain x-ray method of testing of welded joints.  
(CO-4)  
Q.26 What are the causes and remedies of porosity and blow holes?  
(CO-9)  
Q.27 What is a core box? Explain any one with neat sketch.  
(CO-6)  
Q.28 Explain Bench moulding with neat sketch.  
(CO-7)  
Q.29 Write the advantages of die casting. (CO-9)

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- Q.30 Differentiate between hot forging and cold forging. (CO-13)  
Q.31 Explain progressive die. (CO-9)  
Q.32 Write a short note on Extrusion. (CO-13)

### SECTION-D

**Note:** Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Write short note on

- a) Robotic Welding (CO-3)  
b) Types of flames (CO-1)

- Q.34 Explain the different allowances which are provided on patterns. (CO-6)  
Q.35 Explain with neat sketch, construction and working of cupola furnace. (CO-10)  
Q.36 Explain different types of rolling mills with neat sketches. <http://www.hsbteonline.com> (CO-13)  
(Note: Course outcome/CO is for office use only)

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