

No. of Printed Pages : 4  
Roll No. ....

220327

**2nd Sem / Automobile Mechanical, Mechanical  
(Tool & Die Design)  
Sub.: Workshop Technology-1**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Slag inclusion in casting is a  
a) Surface defect      b) Internal defect  
c) Notch      d) None of them
- Q.2 Welding is used for making  
a) Permanent joints      b) Temporary joints  
c) Both A & B      d) None of them
- Q.3 Filler metal is used  
a) Gas welding  
b) Seam welding  
c) Spot welding  
d) Electric resistance welding
- Q.4 Loose piece patterns are held with  
a) Dowels      b) Cores  
c) Binders      d) Nails

(1)

220327

- Q.5 To lift heavy and larger size patterns we use  
a) Rapping plates      b) Gaggers  
c) Dowel pins      d) None of them
- Q.6 Extrusion dies are made of  
a) Cast iron      b) Mild steel  
c) Tungsten carbide      d) H.S.S.

**SECTION-B**

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Write full form of M.I.G.
- Q.8 Acetylene gas is stored in cylinder in \_\_\_\_\_ form.
- Q.9 Name two types of arc welding machines?
- Q.10 Name the pattern allowance which ensures easy withdrawal of pattern from mould.
- Q.11 Bottles are generally manufactured by \_\_\_\_\_ moulding.
- Q.12 Name two types of arc welding machines?

**SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write the four advantages of welding.

(2)

220327

- Q.14 Differentiate between TIG and MIG welding.
- Q.15 Explain magnetic particle inspection method for testing of casting defects.
- Q.16 Name eight hand tools used in mould making.
- Q.17 Give any five important characteristic of natural sand.
- Q.18 Name any four major components of press?
- Q.19 Write the advantages of die casting?
- Q.20 Explain different types of moulding flasks?
- Q.21 Explain the process of wire drawing.
- Q.22 Write in brief the limitations and potentials in the use of plastics.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain the principle, working, advantages, disadvantages and application of MIG welding.
- Q.24 Discuss any five press operation with the help of diagrams.
- Q.25 Explain the process of pipe and tube drawing with diagram?