

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

- 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.

(1)

220327

(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. $(2 \times 8 = 16)$

- 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?

(3)

220327

(2540)

(4)

220327