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**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.

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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?

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