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**3rd Sem / AUTOMOBILE,MECHANICAL ENGG,  
MECHANICAL (TOOL & DIE DESIGN)**

**Subject : Work Technology - II**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

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

Q.1 Thermit welding is a form of

- a) Fusion welding      b) Gas welding
- c) Arc welding      d) All of the above

Q.2 Which gases are used in T.I.G welding.

- a) Argon & Helium
- b) Argon & Neon
- c) Oxygen & Acetylene
- d) None of these

Q.3 An expendable pattern is used in

- a) Slush Casting      b) Investment casting
- c) Squeeze Casting      d) Centrifugal Casting

Q.4 Quick return mechanism is used in

- a) Milling machine      b) Shaper machine
- c) Drilling machine      d) All of the above

Q.5 Up milling is also called

- a) End milling
- b) Cylindrical milling
- c) Both A&B
- d) Conventional milling

Q.6 Bushes are generally provided in jig to

- a) Locate the job      b) Guide the tool
- c) Hold the job      d) All of the above

**SECTION-B**

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

Q.7 In cupola furnace low grade coal/ fuel is used. (True/False)

Q.8 What are non consumable electrodes?

Q.9 Vice jaw fixture is used for machining small parts.(True/False.)

Q.10 In machining of cast iron \_\_\_\_\_ cutting fluids is required.

Q.11 \_\_\_\_\_ Point cutting tool is used in planer machine.

Q.12 In gas welding the ratio of oxyacetylene 2.5:1 then flame will be \_\_\_\_\_.

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220334

## **SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

- Q.13 what are the safety precautions to be taken during arc welding?
- Q.14 Give advantages of jigs and fixtures.
- Q.15 What is the difference between Shaper and Slotter.
- Q.16 Draw the diagram of horizontal Broaching machine and label its parts.
- Q.17 Explain the function of a pattern.
- Q.18 Writes any five properties of cutting tool materials.
- Q.19 Explain quick return mechanism with diagram.
- Q.20 Name any five operations performed on milling machine.
- Q.21 Write important characteristics of natural sand.
- Q.22 What are the advantages of M.I.G. welding?

Q.24 Explain in details the principle parts of Planer machine with neat diagram.

Q.25 Explain any eight welding defects.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 8 = 16)$

- Q.23 Explain with neat sketch, construction and working of cupola furnace.

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220334

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220334