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Roll No.

220334

**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

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- 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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SECTION-C

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

SECTION-D

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

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

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

Q.25 Explain any eight welding defects.