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Roll No.

220334

**3rd Sem / Automobile, Mechanical Engg.,
Mechanical (Tool & Die Design)
Subject:- Workshop Technology - II**

Time : 3Hrs.

M.M. : 60

SECTION-A

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

Q.1 Sweep patterns is used for moulding parts of

- a) Uniform symmetrical shape
- b) Intricate shape
- c) Rectangular shape
- d) None of the above

Q.2 A jig is a device

- a) Which holds and locates the work piece and guides and controls the cutting tool
- b) Is used to check the accuracy of the work piece
- c) Is used to check the accuracy of the cutting tool
- d) All of the above

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Q.3 In automobile industries, welding generally used is

- a) Gas welding b) MIG welding
- c) Spot welding d) None of the above

Q.4 The cutting action of slotter occurs in

- a) Downward stroke b) Upward stroke
- c) Horizontal stroke d) None of the above

Q.5 Jigs are used to hold work in

- a) Milling b) Turning
- c) Planing d) Drilling

Q.6 Which of the following is not a moulding tool?

- a) Trowel b) Riddle
- c) Crucible d) Lifter

SECTION-B

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

Q.7 Plasma is a stream of _____ particles.

Q.8 Uneven wall thickness is produced by _____ casting.

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- Q.9 Casting is a process of _____ the metal and _____ it into moulds made of metal or sand.
- Q.10 A broach used for broaching internal surfaces is called _____ broach.
- Q.11 Baking sand is also called _____
- Q.12 A device used for clamping a work piece in a jig or fixture is known as _____

SECTION-C

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

- Q.13 Explain working principle of slotter.
- Q.14 Explain the principle of working of milling machine.
- Q.15 Write the advantages of MIG welding.
- Q.16 Write the applications of die casting.
- Q.17 What are the causes and remedies of misruns and cold shuts in castings?
- Q.18 Explain any two casting defects with causes and remedies?

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- Q.19 Explain any three Non-Destructive Inspection / Testing.
- Q.20 Differentiate between a jig and a fixture.
- Q.21 Explain single ram and duplex ram horizontal type broaching machine.
- Q.22 What are the causes and remedies of porosity?

SECTION-D

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

- Q.23 Explain various milling operations - Face milling, angular milling, form milling, straddle milling and gang milling.
- Q.24 Differentiate between TIG (Tungsten inert gas welding) and MIG (Metal inert gas welding).
- Q.25 Explain hot chamber die casting machine with a neat sketch.

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