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**4th Sem. Branch : Auto, Mech, Prod, T&D, GE, CNC,
CAD/CAM, Metallurgy, Found & Forg. Adv. Manuf. Tech.,
Mech Engg (Fabrication Tech), Mech Engg. (CAD/CAM
Dsgn. & Robotics)**

Sub: Workshop Technology-II

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

Q.1 Tapper of lathe spindle is

- a) 1:15 b) 1:12
- c) 1:20 d) 1:25

Q.2 Holes are usually enlarged by

- a) Drills b) Reamers
- c) Boring Bar d) None of the above

Q.3 In a shaper tool, the front clearance angle is

- a) 4° degree b) 10° degree
- c) 8° degree d) None of the above

Q.4 A single piece broach is also known as

- a) Solid broach b) Build up Broach
- c) Burnishing broach d) All of the above

Q5. Which of the following is a solid lubricant?

- a) Zinc oxide
- b) Graphite
- c) Molybdenum disulphide
- d) All of the above

Q.6 To drill in aluminium, this coolant is used

- a) Water b) Kerosene
- c) SAE 40 oil d) None of the above

Q.7 The Horizontal feed in a lathe is controlled by

- a) Apron b) Head Stock
- c) Cross slide d) Tail stroke

Q.8 Jigs and fixtures are

- a) Precisions tools b) Machine tools
- c) Both d) None of above

Q.9 Rake angle of a cutting tool may be

- a) Zero b) Positive
- c) Negative d) All of the above

Q.10 A cutting fluid should be

- a) Chemically stable b) Non corrosive
- c) None of above d) Both A & B

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define depth of Cut.
- Q.12 Write of Composition of 18-4-1. H.S.S.
- Q.13 Define Tapping.
- Q.14 Write use of Collet?
- Q.15 Define reaming.
- Q.16 Define Lubrication.
- Q.17 Define Cutting speed.
- Q.18 A good lubricant should have _____ acid value.
- Q.19 Define Boaring.
- Q.20 Write the function of face plate.

SECTION-C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen Questions. (12x5=60)

- Q.21 Write the advantages of turret lathe.
- Q.22 Give the function of steady rest & followers.
- Q.23 Write the purpose of clearance angle and cutting angle?
- Q.24 Describe any one method of Taper Turning.
- Q.25 Name four Clamping devices.

- Q.26 Differentiate B/W cutting fluid and lubricants.
- Q.27 Explain in line boring bar.
- Q.28 Write the function of cutting fluid.
- Q.29 Give the comparison b/w push and pull broach.
- Q.30 Explain the working of Horizontal boring machine.
- Q.31 Describe the geometry of single point cutting tool.
- Q.32 Describe the various types of Drills.
- Q.33 Explain use of feed Rod in the lathe Machine.
- Q.34 Describe the working of radial drilling Machine.
- Q.35 Explain the process of form turning.

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)

- Q.36 Draw a neat sketch of centre lathe. Label its different parts.
- Q.37 Explain any five cutting tool materials.
- Q.38 Explain with the help of neat sketch various types of Broaches.