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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.
- Q25 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.

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