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**4th Sem / 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)**
Subject:- Workshop Technology - II

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The main constituent of high speed steel is _____ (CO3)
- a) Tungsten c) Vanadium
b) Carbon d) Manganese
- Q.2 Lathe bed is made of:- (CO1)
- a) Mild Steel c) Cast Iron
b) Pig Iron d) Alloy Steel
- Q.3 The power in thread cutting is transmitted by lead screw to the carriage by :- (CO1)
- a) Worm and Worm Wheel
b) Rack and Pinion
c) Gear box
d) Half nut
- Q.4 In which of the operation speed is minimum (CO1)
- a) Knurling c) Parting off
b) Thread cutting d) Grooving
- Q.5 Cutting edges of a standard twist drill are called:- (CO5)

- a) Flutes c) Lips
b) Wedges d) Flanks
- Q.6 Reaming operation is related to (CO5)
- a) Finishing c) Threading
b) Drilling machine d) Counter Boring
- Q.7 Boring Bar is made of (CO4)
- a) Cast Iron c) Mild Steel
b) Pig Iron d) Wrought Iron
- Q.8 The length of a pull broach as compared to push broach is (CO13)
- a) Shorter c) larger
b) equal d) none of the above
- Q.9 The fixture is a device that (CO11)
- a) rotates the job and guides cutter
b) holds the tool
c) rotates the job
d) holds the job
- Q.10 T Slots helps in (CO7)
- a) Driving the job c) Moving the job
b) Clamping the job d) Sizing the job

SECTION-B

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

- Q.11 The main function of cutting fluid is to _____ the heat generated during a machining operation. (CO12)
- Q.12 Jigs and Fixtures are economical means to produce _____ type of work. (CO11)

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- Q.13 The tooling cost is _____ in broaching operation (CO13)
- Q.14 The forward stroke is slower and return stroke is faster in shaper. State True or False (CO7)
- Q.15 Facing head is mounted on _____ (CO4)
- Q.16 Feed is the rate of _____ per revolution of drill (CO5)
- Q.17 Diamond tools are used for _____ materials which are difficult to cut. (CO3)
- Q.18 In Lathe machine, Chuck is used to _____ (CO1)
- Q.19 Turret lathe is a _____ lathe (CO1)
- Q.20 A mandrel is used for holding _____ work. (CO9)

SECTION-C

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

- Q.21 Explain the tool geometry of a single point cutting tool with neat sketch. (CO3)
- Q.22 Write the desirable properties of a cutting tool material (CO3)
- Q.23 Explain briefly with neat sketch the following type of reamers:- (CO5)
- i) Hand reamer ii) Taper reamer
- Q.24 Define Boring. Explain its principle. (CO10)
- Q.25 Explain how counter boring is performed on a drilling machine (CO10)
- Q.26 Describe Jig Boring machine with neat sketch. (CO10)

- Q.27 Describe knurling operation on a lathe machine. Why is it done. (CO1)
- Q.28 Describe the specifications of a Lathe machine. (CO9)
- Q.29 Explain the principle of shaping machine (CO7)
- Q.30 Define cutting speed, feed and depth of cut of a planer machine (CO7)
- Q.31 Draw and explain the elements of a broach tool (CO13)
- Q.32 What are clamping devices? Explain different clamping devices. (CO11)
- Q.33 Explain six point principle of location (CO11)
- Q.34 Give difference between cutting fluid and lubricant (CO12)
- Q.35 Explain various types of cutting fluids. (CO12)

SECTION-D

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

- Q.36 Give the nomenclature of a twist drill and explain the main elements of twist drill with neat sketch (CO5)
- Q.37 Define lathe as machine tool. Explain the principle of turning. Explain the various operations which can be performed on a lathe machine. (CO1)
- Q.38 Explain the construction details and working of a radial drill machine with the help of neat sketch (CO4)