

No. of Printed Pages : 4

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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.) (CAD/CAM Dsgn & Robotics)
Subject: Workshop Tech-II**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The angle between the face of tool and plane to the base of the cutting tool is known as : (CO-3)
a) Lip angle b) Clearance angle
c) Cutting Angle d) Rake Angle
- Q.2 The percentage of Tungsten in high speed steel is (CO-3)
a) 2 b) 14
c) 5 d) 18
- Q.3 Lathe spindles have (CO-1)
a) Taper threads b) Internal threads
c) External threads d) Multi end threads
- Q.4 An operation of reducing the diameter of a work piece over a very narrow surface is known as : (CO-1)
a) Grooving b) Facing
c) Counter Boring d) Knurling
- Q.5 The word radial is related to (CO-5)
a) Clamping b) Drilling Machine
c) Machine part d) Tool holding device
- Q.6 In boring operation hole is (CO-9)
a) Reduced b) Enlarged
c) Finished d) None of the above

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- Q.7 The table of shaper is made of (CO-7)

a) HSS b) Alloy steel
c) Graded Cast Iron d) Wrought Iron

- Q.8 T Slots helps in (CO-7)

a) Driving the job b) Clamping the job
c) Moving the job d) Sizing the job

- Q.9 The front teeth of Broach (CO13)

a) remove no material
b) removes minimum material
c) removes maximum material
d) None of these

- Q.10 Viscosity of Oil (CO12)

a) Increases with increase in temperature
b) Decreases with decrease in temperature
c) Remains constant
d) Decreases with increase in temperature

SECTION-B

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

- Q.11 Coolant and Lubricants _____ tool life. (CO-12)
- Q.12 _____ holds the work and guides the tool. (CO-11)
- Q.13 The tooling cost of broaching operation is _____. (CO-13)
- Q.14 The Ram of shaper moves in _____ motion. (CO-7)
- Q.15 The tool of the planner remains _____ and the table _____. (CO-7)
- Q.16 Boring head is used for boring _____ holes. (CO-4)

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- Q.17 Feed is the rate of _____ per revolution of drill. (CO-5)
 Q.18 Turret lathe is _____ type of lathe. (CO-1)
 Q.19 In lathe machine, tool is clamped on _____. (CO-1)
 Q.20 Diamond tools are used for _____ materials which are difficult to cut. (CO-3)

SECTION-C

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

- Q.21 Explain how cutting tools are classified. (CO-2)
 Q.22 Describe the various parts of a cutting tool. (CO-2)
 Q.23 Define Drilling. Explain the principle of drilling. (CO-5)
 Q.24 Describe the following drilling operations with neat sketch : (CO-5)
 i) Counter Boring ii) Spot facing
 Q.25 Explain Taper Turning. Describe any one method of Taper Turning. (CO-1)
 Q.26 Explain any five operations which can be done on a Lathe Machine. (CO-1)
 Q.27 Write down the various specifications of a boring machine. (CO-10)
 Q.28 What is Boring Bar? Give its utility. (CO-10)
 Q.29 Explain the working principle of a Planner. (CO-7)
 Q.30 Name various work holding device used in shaper. Explain any one. (CO-7)
 Q.31 What is Broaching? Explain its principle. (CO-13)
 Q.32 Give difference between Jig and Fixture. (CO-11)

- Q.33 What are Locating devices? Explain different types of Locating devices. (CO-11)
 Q.34 What are cutting fluids? Give their functions. (CO-12)
 Q.35 Explain any two methods of machine lubrication. (CO-12)

SECTION-D

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

- Q.36 What is a Broaching Tool? Draw and explain the elements of a Broach tool with neat sketch. (CO-13)
 Q.37 Explain why a Quick return mechanism is required in shaper. Describe Crank and Slotted link mechanism of quick return. (CO-7)
 Q.38 Explain the main parts of Lathe Machine and their functions with the help of neat sketch. (CO-1)

(**Note:** Course outcome/CO is for office use only)