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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 :
 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)