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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)**

**Subject:- Workshop Technology-II**

Time : 3Hrs. M.M. : 100

## SECTION-A

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

Q.1 Super high speed is a second name of

a) Cobalt HSS b) Molybdenum HSS

c) Tungsten HSS d) None of these

Q.2 The inclined angle of lathe centre is

a) 30° b) 45°

c) 60° d) 90°

Q.3 Lathe spindle has got

a) Taper threads b) Internal threads

c) External threads d) None of these

Q.4 Reaming operation is related to

a) Finishing b) Threading

c) Drilling machine d) Counter boring



Q.5 Holes of large diameter can be bored by

a) Boring head b) Boring bar

c) Both (a) and (b) d) None of these

Q.6 Clapper box is used to

a) Lift tool in cutting stroke

b) Lift tool in return stroke

c) Hold the tool

d) Ensure cutting action

Q.7 The work which cannot be done by planner is

a) Flat surfaces b) Cylindrical surfaces

c) Formed surfaces d) Irregular surfaces

Q.8 Feed of a Slotter is given by the movement of work per

a) Half stroke b) Stroke

c) Double stroke d) All of these

Q.9 A single piece broach is known as

a) Solid broach b) Built up broach

c) Burnishing Broach d) All of these

Q.10 V-locators are used for locating components having profiles

a) Flat b) Cylindrical

c) Circular d) All of the above

## SECTION-B

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

Q.11 A twist drill is usually made of stainless steel. (True/False)

Q.12 Define feed of a cutting tool.

Q.13 The purpose of back rack angle is to guide the direction of flow of chip. (True/False)

Q.14 Define rake angle of a single point cutting tool.

Q.15 Write the function of headstock.

Q.16 On which machine plate jig is commonly used?

Q.17 Define boring bar.

Q.18 Shaper uses _____ point cutting tool.

Q.19 What is the use of stop pins?

Q.20 Name the material used for jig and fixture.

## SECTION-C

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

Q.21 Write properties of cutting tool materials.

Q.22 Name the factors on which cutting speed of drill depends.

Q.23 Write safety precautions associated with lathe.



Q.24 Define different types of feed.

Q.25 Explain the principle of boring.

Q.26 Explain the classification of boring machine.

Q.27 Give some examples of work on planer.

Q.28 Write the factors which are considered for selecting a broaching machine.

Q.29 Differentiate between a jig and a fixture.

Q.30 Explain any four characteristics of a good lubricant.

Q.31 Discuss the various types of cutting fluids.

Q.32 Differentiate between pull broaching and push broaching.

Q.33 Describe the principal parts of a Slotter.

Q.34 Differentiate between shaper and planer.

Q.35 Describe jig boring machine in brief.

## SECTION-D

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

Q.36 Define drill. What are its different types? Explain.

Q.37 Explain principal parts of a lathe with the help of neat sketches.

Q.38 Explain various clamping devices in detail.