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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 Degn. & Robotics)**

**Subject : Workshop Technology-II**

Time : 3 Hrs.

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

- a) Tungsten
- b) Carbon
- c) Vanadium
- d) Manganese

Q.2 Cutting tool material should possess low

- a) Hardness
- b) Co-efficient of friction
- c) Toughness
- d) Wear resistance

Q.3 A mandrel is used to hold

- a) An eccentric work
- b) A thin work
- c) A heavy work
- d) None of these

Q.4 In a capstan lathe, the turret is mounted on

- a) Compound rest
- b) Back tool post
- c) The saddle sliding on the bed
- d) A short slide of ram sliding on the saddle

Q.5 Cutting fluid for mild steel is

- a) Kerosene oil
- b) Mineral lard oil
- c) Soluble oil
- d) Sulphur base oil

Q.6 The cutting edges of a standard twist drill are called

- a) Flutes
- b) Lips
- c) Wedges
- d) Flanks

Q.7 Holes are usually enlarged by

- a) Boring bars
- b) Twist drill
- c) Reamers
- d) Stake bars

Q.8 Which of the following is not a part of a shaper?

- a) Cross slide
- b) Tail head
- c) Ram
- d) Clapper box

Q.9 One side housing planer is used for

- a) Small job
- b) Wide and small jobs
- c) Very long jobs
- d) Very wide and long jobs

Q.10 Feed of a Slotter is determined by

- a) Half stroke
- b) Stroke
- c) Double stroke
- d) All of the above

### **Section-B**

**Note: Short Answer type questions. Attempt any ten questions out of twelve questions. (10x1=10)**

Q.11 Define single point cutting tool.

- Q.12 A boring tool is a/an \_\_\_\_ point cutting tool.
- Q.13 Define the depth of cut.
- Q.14 Define the drilling.
- Q.15 A broach has only finishing teeth. (True/False)
- Q.16 Define facing.
- Q.17 Write the function of magnetic chuck.
- Q.18 Define spot facing.
- Q.19 Name commonly used Broach material.
- Q.20 A cutting fluid should have \_\_\_\_ flash point.

### Section-C

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

- Q.21 What are the effects of heat produced during metal cutting?
- Q.22 Discuss the high speed steel cutting tool.
- Q.23 Compare the Caption and turret lathe.
- Q.24 Write any five advantages of twist drill.
- Q.25 Explain the principle of turning.
- Q.26 Write the uses of boring machines.
- Q.27 How we specify boring machine?
- Q.28 Write some safety precautions to be taken on Planer.
- Q.29 Name various types of Broaches.
- Q.30 Write the functions of cutting fluid.

- Q.31 Why cast iron is extensively used in jig and fixture?
- Q.32 Name different types of liquid lubricants.
- Q.33 What are the various safety precautions in reaming?
- Q.34 Differentiate between lathe and shaping machine.
- Q.35 Explain the working principle of a planer.

### Section-D

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

- Q.36 Compare the shaper and planer.
- Q.37 Explain any five lathe operations.
- Q.38 What is a drilling jig? What are its different types? Explain.