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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) State 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.

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- 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 Capton 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.

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- 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.

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