

- Q.28 Write the difference between cutting fluid and lubricant.
- Q.29 Name various work holding devices used in the lathe work.
- Q.30 Explain the properties of cutting materials.
- Q.31 Describe jig boring machine.
- Q.32 Enlist various job holding devices used in a slotting machine.
- Q.33 Explain clamping devices with principle of clamping.
- Q.34 Explain various methods adopted to lubricate machine tools.
- Q.35 How broaching machines are classified?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Give a brief description of various types of drills and salient features of any two types of drill.
- Q.37 Give a list of main accessories used on lathe. Explain any two of them.
- Q.38 How boring machines are classified, sketch and explain the working of a vertical boring machine?

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4th Sem / Mechanical Engineering (MSIL) Subject:- Workshop Technology - II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Tool signature is?
a) Plane of tool
b) Used to describe the material of tool.
c) A numerical method of identification of tool
d) None of these
- Q.2 Rake angle is provided on a cutting tool to?
a) Control cutting action
b) Control chip formation
c) Control cutting forces
d) Prevent rubbing
- 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 The inclined angle of lathe centre is.
a) 30° b) 45°
c) 60° d) 90°

- Q.5 The cutting edges of a standard twist drill are called as ?
 a) Flutes b) Lips
 c) Wedges d) Flanks
- Q.6 Which of the following is not a part of shaper?
 a) Cross-slide b) Tail head
 c) Ram d) Clapper box
- Q.7 The commonly used material for broaching tool is
 a) Tungsten carbide b) High carbon steel
 c) Ceramics d) High speed steel
- Q.8 A jig is commonly used on following types of machine?
 a) Lathe b) Drilling machine
 c) Shaper d) None
- Q.9 Lubricant should have _____ variation in viscosity.
 a) Minimum b) Maximum
 c) Zero d) None of these
- Q.10 A grease is _____ combination of petroleum product and a soap.
 a) Liquid b) Semi-solid
 c) Solid d) None of these

SECTION-B

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

- Q.11 Boring tool is a _____ (single/multi) point cutting tool.

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- Q.12 The rotating motion of the work piece in a lathe is called cut motion.(True/False)
- Q.13 The centre of the tailstock is known as _____
- Q.14 A twist drill is a type of drill having _____ flutes.
- Q.15 Tapping is an operation of cutting external threads. (True/False)
- Q.16 Boring head is used for boring _____ holes.
- Q.17 The ram of a shaper moves in _____ motion.
- Q.18 Horizontal broaching machine occupies _____ Floor space than vertical machine.
- Q.19 Fixtures guide the tools and are less rigid. (True/False)
- Q.20 Coolants and lubricants _____ the tool life.

SECTION-C

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

- Q.21 Write short note on the following:
 i) Diamond ii) High speed steel
- Q.22 Explain various types of drives in lathe work.
- Q.23 Write the necessity of carbide tipped reamers.
- Q.24 Describe the specifications of boring machines.
- Q.25 Name the different parts of a shaper and explain any one in detail.
- Q.26 What is broaching? Explain the working principle of broaching.
- Q.27 Define jig and fixture.

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