

- Q.26 Draw the single point cutting tool and label its every part.
- Q.27 Define Reamers with a neat diagram. Enlist the various types of reamers.
- Q.28 Explain the following with respect to lathe
a) dog b) steady rest
- Q.29 Classify lubricants, giving its functions.
- Q.30 Write a short note on 4 operations to be performed on a lathe.
- Q.31 List the various parts of a drilling machine with a neat diagram.
- Q.32 Name the various methods of taper turning method. Explain any two.
- Q.33 Describe the following drilling operations with neat sketch
a) counter boring b) spot facing
- Q.34 Write a short note on indexing method.
- Q.35 Explain any two methods of machine Lubrication.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain why a Quick return mechanism is required in shaper. Describe crank and slotted link mechanism of quick return.
- Q.37 Explain the main parts of lathe machine and their functions with the help of neat sketch.
- Q.38 Classify the boring machines and explain various part of table type horizontal boring machine.

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5th Sem. / Mechatronics

Subject:- Manufacturing Processes

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Functions of cutting fluids are
a) to cool the cutting tool and the workpiece
b) to lubricate the chip, tool and workpiece
c) to help carry away the chips
d) all of the mentioned
- Q.2 _____ form mixtures ranging from emulsions to solutions.
a) Water miscible fluids
b) Neat oils
c) Synthetics
d) none of the mentioned
- Q.3 Which of the following is the advantage of shaping process?
a) Large objects can be machined easily
b) Thin or fragile workpiece can also be machined
c) Lower machining time
d) Higher tool life
- Q.4 Milling machine can hold _____ cutters at a time.
a) only one b) only two
c) only three d) none of the mentioned

- Q.5 Producing circular hole in a solid metal by means of revolving tool is known as
- Drilling
 - Reaming
 - Boring
 - all of the above
- Q.6 Process of enlarging the hole size and enhancing its surface finish is known as
- Drilling
 - Reaming
 - Boring
 - Counter boring
- Q.7 How many types of shapers are there?
- 5
 - 8
 - 10
 - 11
- Q.8 Which of the following motion does a milling machine has?
- vertical motion
 - crosswise motion
 - longitudinal motion
 - all of the mentioned
- Q.9 _____ acts downward on the tool tip.
- Cutting force
 - Radial force
 - Thrust force
 - none of the mentioned
- Q.10 Operation of enlarging the end of the hole to give conical shape at end is known as
- Drilling
 - Reaming
 - Boring
 - Counter sinking

SECTION-B

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

- Q.11 In milling machine, cutter rotates at high speed and removes metal at very high speed. (true/false)
- Q.12 Pneumatic drilling machines gets power from the _____.
- Q.13 In a lathe, _____ is used locate and hold a work-piece with central hole.
- Q.14 The usual ratio of forward to return stroke in shaper is _____.
- Q.15 Wax is an example of liquid lubricant. (true/false)
- Q.16 A good lubricant should have _____ acid value.
- Q.17 The size of a horizontal boring machine is specified by the _____.
- Q.18 Sensitive drilling machine is also known as _____.
- Q.19 In a planer, V-Block is used for holding round jobs. (true/false)
- Q.20 Boring bit is made up of stainless steel. (true/false)

SECTION-C

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

- Q.21 Differentiate between shaper and planer.
- Q.22 List the various properties of cutting fluids.
- Q.23 Describe the various principal part of shaping machine.
- Q.24 Explain briefly about the working principal of boring machine.
- Q.25 Write the safety precautions associated with lathe operations.