

- Q.23 Define the following
 i) Depth of cut ii) Cutting speed
- Q.24 What is boring bar? Describe its utility.
- Q.25 Explain the working principle of a planer.
- Q.26 Enlist various types of tools used in a slotter.
- Q.27 List advantages and limitations of broaching.
- Q.28 Explain six point location principle.
- Q.29 Write the functions of cutting fluid.
- Q.30 Explain the nomenclature of lathe tools.
- Q.31 Explain various terms related to single point cutting tool.
- Q.32 Write the principle of boring.
- Q.33 Explain the working principle of a shaper
- Q.34 Explain the advantages of jigs and fixtures.
- Q.35 Explain different elements of broach tool.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe the construction and working of radial drilling machine.
- Q.37 Describe main parts of a lathe and their functions.
- Q.38 What is drilling jig? Enlist various types of jigs in detail.

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4th. Sem / Mech. Engg. (MSIL)
Subject:- Workshop Technology - II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Cutting tool material should posses low
 a) Hardness b) Coefficient of friction
 c) Toughness d) Wear resistance
- Q.2 Lathe spindle has got
 a) Taper threads b) Internal threads
 c) External threads d) None of these
- Q.3 The lathe bed is made of
 a) Mild steel b) Chilled cast iron
 c) Alloy steel d) Pig iron
- Q.4 For softer materials, the point angle of drill is?
 a) Increased b) Decreased
 c) Kept at 118° d) None of these
- Q.5 Vertical boring machine is also known as
 a) Vertical boring lathe
 b) Vertical milling machine
 c) Vertical boring mill
 d) Vertical drilling head

Q.6 The size of a shaper is given by

- a) Length of ram stroke
- b) Length of table
- c) Maximum size of vice
- d) Power of motor

Q.7 The numbers of tools that can be mounted on a cross-rail of a planer

- a) One tool heads b) Two tool heads
- c) Three tool heads d) Four tool heads

Q.8 Slotter occupies _____ space when compared to shaper.

- a) Less b) Same
- c) More d) None of the above

Q.9 The length of a pull broach as compared to push broach is?

- a) Shorter b) Larger
- c) Equal d) All of the above

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

- a) Flat b) Cylindrical
- c) Circular d) None of these

SECTION-B

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

Q.11 Drill is a multi point cutting tool. (True/False)

Q.12 Chuck is a _____ device for the job.

Q.13 End cutting edge angle varies from _____ to _____ degrees.

Q.14 Hand operated drilling machine is called breast drill. (True/False)

Q.15 Feed is the rate of _____ per revolution of drill.

Q.16 _____ is an operation of enlarging one end of a drilled hole.

Q.17 The forward stroke of quick return motion mechanism in a shaper has less speed. (True/False)

Q.18 The tool of a planer remains _____ and the table _____.

Q.19 Broach is single point cutting tool. (True/False)

Q.20 Coolants and lubricants are also called _____ fluids.

SECTION-C

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

Q.21 What do you understand by tool signature?

Q.22 Explain the principle of turning.