

- Q.30 Write a short note on shaping machine.
 Q.31 Explain the elements of a broach tool.
 Q.32 Explain vertical broaching machine (push type) with the help of a neat sketch.
 Q.33 Write a short note on jigs and fixtures.
 Q.34 Enlist the qualities of a good lubricant.
 Q.35 Write the functions of cutting fluids.

SECTION-D

- Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Define lathe. What are its different types? Explain any two in detail.
 Q.37 Explain the nomenclature of a drill with labelled sketch.
 Q.38 Explain any three locating devices with the help of neat sketches.

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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 Wearing resistance of cutting tool must be.
 a) High b) Low
 c) Very low d) None of the mentioned
- Q.2 Which of the following part of lathe slides along bed ways?
 a) Cross slide b) Saddle
 c) Compound rest d) None of the mentioned
- Q.3 Self centered chuck has _____ number of jaws.
 a) 10 b) 1
 c) 2 d) 3
- Q.4 Part of drill between neck and tang is known as.
 a) Body b) Point
 c) Shank d) Chisel edge
- Q.5 Operation of finishing previously drilled hole in order to bring it to accurate size and have good surface finish is known as
 a) Drilling b) Reaming
 c) Boring d) Counter boring

- Q.6 Process of enlarging only a small part of hole is also known as.
a) Drilling b) Reaming
c) Boring d) Counter boring
- Q.7 Which of the following part of shaper machine carries tool head?
a) Cross rail b) Column
c) Ram d) Table
- Q.8 For which of the following operations, broaching can be used?
a) Threading
b) Grinding
c) Spline cutting
d) Increasing the size of the existing hole for a certain length
- Q.9 In which of the following operation jigs are preferred over fixture?
a) Drilling b) Turning
c) Milling d) Grinding
- Q.10 By increasing cutting speed, amount of heat generated.
a) Increases b) Decreases
c) Remains constant d) None of the mentioned

SECTION-B

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

- Q.11 Define feed of a tool.
Q.12 Write any four cutting tool materials.

- Q.13 What is the use of angle plate in lathe?
Q.14 What is the function of headstock in a lathe?
Q.15 What is principle of drilling?
Q.16 Describe boring bars.
Q.17 Name principal parts of a planer.
Q.18 Define pull end of broach.
Q.19 Define clamping device of a jig.
Q.20 Name any two solid lubricant.

SECTION-C

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

- Q.21 What are the side relief angle and end relief angle of a single point cutting tool? Show by diagram.
Q.22 Explain five desirable properties of cutting tool material.
Q.23 Write the safety precautions associated with the lathe.
Q.24 Explain any two work holding devices of lathe.
Q.25 Explain taper turning & eccentric turning in lathe operation.
Q.26 Enlist different types of attachments used on lathe with their significance.
Q.27 Write advantages and disadvantages of a twist drill.
Q.28 Write a short note on boring bars and boring heads.
Q.29 Explain the principle of a slotter.