

- 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.

No. of Printed Pages : 4  
 Roll No. ....

MSIL-121744/031744

#### 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 possess 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
- Length of ram stroke
  - Length of table
  - Maximum size of vice
  - Power of motor
- Q.7 The numbers of tools that can be mounted on a cross-rail of a planer
- One tool heads
  - Two tool heads
  - Three tool heads
  - Four tool heads
- Q.8 Slotter occupies \_\_\_\_\_ space when compared to shaper.
- Less
  - Same
  - More
  - None of the above
- Q.9 The length of a pull broach as compared to push broach is?
- Shorter
  - Larger
  - Equal
  - All of the above
- Q.10 V-locators are used for locating components having profiles.
- Flat
  - Cylindrical
  - Circular
  - None of these

(2) MSIL-121744/031744

## 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.

(3) MSIL-121744/031744