

No. of Printed Pages : 4
Roll No.

220327

**2nd Sem / Automobile, Mechanical, Mechanical
(Tool & die Design)
Subject : Workshop Technology- I**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is the use of V-Blocks? (CO1)
- a) For checking only squareness of square work pieces
 - b) For Checking roundness
 - c) Only for the support purposes
 - d) To support triangular surfaces only
- Q.2 What is the primary purpose of a micrometer? (CO2)
- a) Depth Measurement
 - b) External measurement
 - c) Internal measurement
 - d) Measuring very small distances with high accuracy

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- Q.3 The most commonly used flame in gas welding is _____. (CO8)
- a) Neutral
 - b) Oxidizing
 - c) Carburizing
 - d) All of the above
- Q.4 Lathe bed is usually made of _____. (CO5)
- a) Structural steel
 - b) Stainless steel
 - c) Cast iron
 - d) Mild steel
 - e) All of the above
- Q.5 The most commonly used materials for drills, taps and reamers is _____. (CO7)
- a) Low alloy carbon steel
 - b) Mild steel
 - c) H.S.S.
 - d) None of the option
- Q.6 Which of the following is not the type of boring machine? (CO6)
- a) Horizontal boring machine
 - b) Vertical boring machine
 - c) Jig boring machine
 - d) Radial Drilling

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SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Surface plate is made of _____ iron. (CO1)
- Q.8 The main scale of a vernier caliper provides the _____ measurement. (CO2)
- Q.9 The coefficient of friction of cutting tool must be as _____ as possible. (CO4)
- Q.10 The head stock centre and tail stock centre must be in _____. (CO3)
- Q.11 A twist drill is a type of drill having _____ flutes. (CO7)
- Q.12 Boring is process of making holes. (True/False). (CO6)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the sledge hammers? (CO1)
- Q.14 List the operations that can be performed on a surface plate. (CO1)
- Q.15 Explain the principle of vernier caliper. (CO2)
- Q.16 List any eight types of cutting tool materials. (CO5)

Q.17 Discuss different types of Gas Welding Flames. (CO8)

Q.18 Define Straight Polarity and Reverse Polarity. (CO9)

Q.19 Define a lathe machine and explain the working principle of turning. (CO3)

Q.20 Define cutting speed, feed and machining time for drilling. (CO6)

Q.21 Explain the principle of boring and mention any five application. (CO7)

Q.22 Write the main functions of cutting fluids in metalworking processes. (CO10)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Define cutting Tool. Describe the single point cutting tool with a neat diagram along with various nomenclatures. (CO4)

Q.24 Describe the function of various parts of a centre lathe with neat sketch. List some of the operations that can be done on lathe. (CO3)

Q.25 Define drilling. Explain sensitive drilling machine with the help of neat sketch. (CO6)