

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 heads 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 sledges 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)