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**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 Principal marking tool used in fitting shop is? (CO1)

- a) Pliers
- b) Surface gauge
- c) Chisel
- d) Hammer

Q.2 Micrometer has a least count of _____. (CO2)

- a) 0.01 mm
- b) 0.1 mm
- c) 1 mm
- d) None of these

Q.3 Which of the cutting tool material is/are commonly used? (CO3)

- a) H.S.S
- b) Carbides
- c) Ceramics
- d) All of these

Q.4 Lathe centers are provided with standard tapers.

- a) Morse
- b) Sharpe (CO5)
- c) British
- d) None of these

Q.5 Boring head is used to (CO6)

- a) mount the cutter
- b) clamp the boring tool
- c) Both a and b
- d) None

Q.6 A new hole is produced by _____ process. (CO7)

- a) boring
- b) drilling
- c) Turning
- d) Milling

SECTION-B

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

Q.7 What is surface plate? (CO1)

Q.8 The least count of vernier scale is ____ mm. (CO2)

Q.9 Oxygen cylinder are painted with _____ color. (CO9)

Q.10 Lathe bed is generally made up of _____ Material. (CO5)

Q.11 The sharp edge at extreme tip of drill is called dead center. (True/False) (CO6)

Q.12 Holes are usually enlarged by boring bars. (True/False) (CO7)

(1)

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(2)

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SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

Q.13 What is saw? Explain its different parts with a simple sketch. $(CO1)$

Q.14 Explain in brief the working principle of micrometer with the help of neat sketch. $(CO2)$

Q.15 Write any four properties of the cutting tool materials. $(CO4)$

Q.16 What is an electrode? Explain in brief two type of electrodes. $(CO8)$

Q.17 Explain in brief any four lathe accessories. $(CO2)$

Q.18 What are the effects due to heat produced during cutting. $(CO5)$

Q.19 What is boring tool? Name any three boring tools. $(CO7)$

Q.20 Explain the working principal of boring. $(CO6)$

Q.21 Explain work holding devices for boring operation. $(CO1)$

Q.22 Differentiate between cutting fluid and lubricants. $(CO1)$

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

Q.23 Explain three different type of gas flames with the help of neat sketch and write their application. $(CO9)$

Q.24 Describe the function of various parts of a center lathe with the help of neat sketch. $(CO3)$

Q.25 Describe the construction and working of table type horizontal boring machine with the help of neat sketch. $(CO6)$