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**4th Sem / Mechanical Engineering
Subject : Workshop Technology-II**

Time : 3 Hrs. **M.M. : 100**

SECTION-A

Note : Multiple choice questions. All questions are compulsory. (10x1=10)

- Q.1 Milling cutter is a (CO-1)
a) Multipoint cutting tool
b) Rotary motion tool
c) Both A & B
d) None of these
- Q.2 The rake angle of a cutting tool may be (CO-1)
a) Positive b) Negative
c) Zero d) All of these
- Q.3 The main constituent of high speed steel is. (CO-2)
a) Tungsten b) Chromium
c) Vanadium d) Cobalt
- Q.4 The cutting edges of a standard twist drill are called (CO-2)
a) Flutes b) Lips
c) Flanks d) None of these
- Q.5 For harder materials the point angle of drill is. (CO-2)

- a) 125^0 - 150^0 b) 12^0 - 15^0
c) 18^0 d) None of these
- Q.6 For soft materials, helixangle is (CO-3)
a) 30^0 b) 20^0
c) 15^0 d) None of these
- Q.7 The process of enlarging a hole is (CO-3)
a) Boring b) Drilling
c) Reaming d) None of these
- Q.8 In a lathe, bed ways are. (CO-4)
a) Horizontal b) Vertical
c) Rotational d) None of these
- Q.9 Taper turning can be done by. (CO-4)
a) Swiveling compound rest
b) Taper turning attachment
c) Forming tool
d) All of these
- Q.10 Which of the following is the material of boring bit? (CO-5)
a) High speed steel b) Carbide
c) Ceramic d) All of these

SECTION-B

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

- Q.11 Define tapping. (CO-1)
- Q.12 Define single point cutting tool. (CO-1)

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- Q.13 Satellite contains no iron. (True/False) (CO-1)
 Q.14 Tool life _____ as the cutting speed increase. (CO-2)
 Q.15 The most common value of lip relief angle of a drill is _____. (CO-2)
 Q.16 Name any one single point cutting tool. (CO-2)
 Q.17 The head stock centre is called _____. (CO-3)
 Q.18 The taper surfaces are represented by _____. (CO-3)
 Q.19 For drilling on lathe, the drill is held in _____. (CO-5)
 Q.20 Shaper uses _____ point cutting tool. (CO-6)

SECTION-C

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

- Q.21 Name any four cutting tool materials. (CO-1)
 Q.22 What are the effect of a tool signature? (CO-1)
 Q.23 Explain various types of cutting tools in lathe. (CO-1)
 Q.24 Write properties of cutting tool materials. (CO-2)
 Q.25 Explain principle of drilling. (CO-2)
 Q.26 Differentiate between single point cutting tool and multipoint cutting tool. (CO-1)
 Q.27 Write the avantages of twist drill (any five). (CO-1)
 Q.28 Explain principle of turning. (CO-2)
 Q.29 Define different types of feeds. (CO-2)
 Q.30 Explain ram type turret lathe. (CO-2)
 Q.31 Write the uses of boring machines (any five). (CO-3)
 Q.32 Explain boring parameters. (CO-3)

- Q.33 Write the advantages of planer. (CO-5)
 Q.34 Explain working principle of a shaper. (CO-5)
 Q.35 Differentiate between pull and push broach. (CO-6)

SECTION-D

Note : Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 Explain any five lathe operation with neat sketch. (CO-1)
 Q.37 Explain principle parts of shaping machine with the help of neat sketch. (CO-4)
 Q.38 Define cutting fluid. What are its different types? Explain. (CO-6)

Note : Course Outcome (CO) mentioned in the question paper is for official purpose only.