

- Q.26 Differentiate between single point cutting tool and multipoint cutting tool. (CO-1)
- Q.27 Write the advantages of turning (any five): (CO-1)
- Q.28 Explain principle of boring. (CO-2)
- Q.29 Define different types of feeds. (CO-2)
- Q.30 Explain stub boring bars. (CO-2)
- Q.31 Write the uses of boring machines (any five). (CO-3)
- Q.32 Differentiate between shapes and planer. (CO-3)
- Q.33 Write the advantages of planer. (CO-4)
- Q.34 Explain broaching techniques. (CO-5)
- Q.35 Write the properties of a cutting fluid. (CO-6)

SECTION-D

Note: Long Answer Type Questions. Attempt any Two Questions out of three Questions. (2x10=20)

- Q.36 Explain radial drilling machine with the help of neat sketch. (CO-1)
- Q.37 Explain principle parts of shaping machine with the help of neat sketch. (CO-4)
- Q.38 Explain different element of a broach with the help of neat sketch. (CO-5)

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

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(4) 181744/171744/121744

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SECTION-A

Note: Multiple Choice Questions. All questions are Compulsory. (10x1=10)

- Q.1 Drill is a (CO-1)
- a. Multipoint cutting tool b. Rotary Motion Tool
- c. Both a and b d. None of these
- Q.2 Super high speed is also known as (CO-1)
- a. High carbon steel b. Tungsten Carbide
- c. Stellite d. Cobalt Steel
- Q.3 The main constituent of high speed steel is. (CO-2)
- a. Tungsten b. Chromium
- c. Vanadium d. Cobalt
- Q.4 Which technique is used for producing cemented carbide. (CO-2)
- a. Annealing b. Powder metallurgy
- c. Case hardening d. None of these

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- Q.5 Pneumatic drill makes use of _____ for operation.
 a. Compressed Air b. Steam (CO-2)
 c. Cold Air d. None of these
- Q.6 For soft materials, helix angle is (CO-3)
 a. 30° b. 20°
 c. 15° d. None of these
- Q.7 Holes are usually enlarged by (CO-3)
 a. Boring bars b. Twist drill
 c. Reamers d. None of these
- Q.8 Which of these is not a part of lathe? (CO-4)
 a. Ram b. Cross slide
 c. Carriage d. Lead Screw
- 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 The commonly used material for broach is. (CO-5)
 a. Mild steel b. Carbide
 c. Ceramic d. High speed Steel

(2) 181744/171744/121744

SECTION-B

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

- Q.11 Name the types of cutting tools. (CO-1)
- Q.12 Define shank of a single point cutting tools. (CO-1)
- Q.13 Satellite is/an _____ alloy. (CO-1)
- Q.14 Tool life _____ as the cutting speed increases. (CO-2)
- Q.15 The part of drill which is gripped in the drill chuck is called _____. (CO-2)
- Q.16 Name any one multipoint cutting tool. (CO-2)
- Q.17 The tail stock centre is called _____. (CO-3)
- Q.18 A good lubricant should have _____ flash point. (CO-3)
- Q.19 A jig is not _____ to the machine table. (CO-5)
- Q.20 Planer uses _____ point cutting tool. (CO-6)

SECTION-C

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

- Q.21 Define cutting speed of a cutting tool. (CO-1)
- Q.22 What are the effect of a tool signature? (CO-1)
- Q.23 Explain any four cutting tool materials. (CO-1)
- Q.24 Write properties of cutting tool materials. (CO-2)
- Q.25 Explain principle of turning. (CO-2)

(3) 181744/171744/121744