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Mechanical Engineering
Subject:- Workshop Practice - I

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Drill is a
- a) Multipoint cutting tool
- b) Rotary motion pool
- c) Both (a) & (b)
- d) None of these

Q.2 Super high speed is also known as
- a) High carbon steel b) Tungsten carbide
- c) Satellite d) Cobalt steel

Q.3 Which type of feed is needed in facing operation?
- a) Longitudinal
- b) Cross
- c) Both cross and longitudinal
- d) None of these

Q.4 Which type of surface is produced in facing operation?
- a) cylindrical b) Flat
- c) Taper d) None of these

Q.24 Explain marking and shearing.

Q.25 Explain principle of turning.

Q.26 Explain reaming and tapping.

Q.27 Write the advantages of turning (any five).

Q.28 Explain principle of milling.

Q.29 Define step turning.

Q.30 Explain face milling.

Q.31 Write the uses of lathe machine (any five).

Q.32 Differentiate between vertical milling and horizontal milling.

Q.33 Write the advantages of heat treatment.

Q.34 Explain forming techniques.

Q.35 Write the function of mould.

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.

Q.37 Explain principle parts of a milling machine with the help of neat sketch.

Q.38 Explain vernier caliper with the help of neat sketch.

Q.5 Pneumatic drill makes use of_____ for operation.

a) Compressed air b) Steam

c) Cold air d) None of these

Q.6 Which type of feed is needed in turning operation?

a) Longitudinal

b) Cross

c) Both cross and longitudinal

d) None of these

Q.7 Holes are usually enlarged by

a) Boring bars b) Twist drill

c) Reamers d) None of these

Q.8 Which of these is not a part of lathe?

a) Ram b) Cross slide

c) Carriage d) Lead screw

Q.9 Taper turning can be done by

a) Swiveling compound rest

b) Taper turning attachment

c) Forming tool

d) All of these

Q.10 Which of the following milling process is used for machining of irregular shapes?

a) Slab milling b) Face milling

c) Angular milling d) Form milling

SECTION-B

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

Q.11 Name the types of cutting tools.

Q.12 Removing the pieces from the edge in shearing operation is known as_____

Q.13 Leaving a tab without removing any material is known as_____

Q.14 As the thickness of sheet is increased the clearance needed will also_____

Q.15 The part of drill which is gripped in the drill chuck is called_____

Q.16 Name any one multipoint cutting tool.

Q.17 As the clearance increases, the punch force required _____

Q.18 Define step turning.

Q.19 Define face milling.

Q.20 Milling machine uses_____point cutting tool.

SECTION-C

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

Q.21 Define cutting speed of a cutting tool.

Q.22 Define filing and sawing.

Q.23 Explain any four cutting operations.