

- Q.27 Differentiate between three jaw chuck and four jaw chuck.
- Q.28 Writes any five properties of cutting tool materials.
- Q.29 Explain quick return mechanism with diagram.
- Q.30 Give the functions of lubrication in lathe machine.
- Q.31 What are the effects of cutting fluids on tool life.
- Q.32 How a Drilling machine can be specified.
- Q.33 Explain working principle of Radial drilling machine.
- Q.34 Name any five operations performed on Shaper.
- Q.35 Draw the diagram of Drilling Machine and label its parts.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain in details the construction and working of lathe machine with line diagram.
- Q.37 Explain in details the principle parts of Planer machine with neat diagram.
- Q.38 Explain the construction and working of Radial drilling machine.

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Mechanical Engineering Subject:- Workshop Technology - II

Time : 3Hrs.

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SECTION-A

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

- Q.1 Cutting tools wears due to
a) Edge Wear b) Flank Wear
c) Crater Wear d) All of the Above
- Q.2 Cutting speed of high Speed Steel is _____ times faster than carbon steel.
a) 2 b) 4
c) 6 d) None of these
- Q.3 Lathe bed is usually made of
a) Stainless steel b) High carbon steel
c) Mild steel d) Cast iron
- Q.4 Ceramic tools are fixed to a tool body by
a) Brazing b) Welding
c) Clamping d) All of the above
- Q.5 Which stroke is cutting in shaper?
a) Forward b) Backward

- c) Both A & B d) None of these
- Q.6** Which machine is used for machining smaller jobs?
- a) Shaper b) Planer
 - c) Can't say d) none of these
- Q.7** Which Movement of ram is called Stroke?
- a) Only Back b) Only forth
 - c) Back and forth d) All of the above
- Q.8** Bushes are generally provided in jig to
- a) Locate the Job b) Guide the Tool
 - c) Hold the Job d) All of the above
- Q.9** Broaching is used for machining of
- a) External Surfaces b) Internal Surfaces
 - c) Both A & B d) None of these
- Q.10** The cutting fluids mostly used for machining steel is
- a) Water b) Air
 - c) Soluble oil d) None of these

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11** Corundum is an abrasive. (True/False)
- Q.12** Shaping is an example of metal cutting process. (True/False)

- Q.13** In lathe machine tail stock is mounted on left hand side of the machine. (True/False)
- Q.14** In machining of cast iron no cutting fluids is required. (True/False)
- Q.15** _____ Plate is used to hold the irregular shaped jobs.
- Q.16** Four jaw chuck is also known as _____
- Q.17** In lathe the carriage and tail stock are guided on _____
- Q.18** Lathe centers are provided with _____ Taper.
- Q.19** Broaching are specified by _____
- Q.20** With the use of jigs and fixtures total cost of production. (Increases/Decreases)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21** Define lathe and name any four types of tool post.
- Q.22** Give advantages of jigs and fixtures.
- Q.23** Define speed feed and depth of cut for lathe machine.
- Q.24** Define reamers with neat sketch.
- Q.25** What is the difference between Shaper and Slotter.
- Q.26** Draw the diagram of horizontal Broaching machine and label its parts.