

- Q.29 Differentiate between lathe and planer.
- Q.30 Name different drill holding devices and explain any two.
- Q.31 Explain taper turning. Describe any one method of taper turning.
- Q.32 List the various advantages of Quick return motion mechanism.
- Q.33 What is a cutting tool? Give its utility.
- Q.34 Explain horizontal milling machine with a neat diagram.
- Q.35 Enlist the various types of cutting operations for lathe machine.

Section-D

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

- Q.36 Explain the following in detail
- Indexing
 - cutting parameters in lathe.
- Q.37 Describe in detail the Nomenclature of twist drill with a neat diagram.
- Q.38 Explain about the selection of cutting fluid for different material and operations.

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5thSem., Branch : Mechatronics Subject : Manufacturing Processes

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which of the following is used for machining smaller jobs?
- Shaper
 - Planer
 - Can't say anything
 - None of the mentioned
- Q.2 The drilling machine was primarily designed to originate a _____.
- Flat surface
 - Cylindrical surface
 - Taper surface
 - None of the mentioned
- Q.3 By increasing cutting speed amount of heat generated
- Increases
 - Decreases
 - Remains constant
 - Depends on the material of tool
- Q.4 Which machine tool is known as the mother machine tool?
- Drill
 - Milling
 - Lathe
 - None of mentioned

- Q.5 Which of the following method is adopted for fast boring?
 a) Cylindrical augers b) Percussion boring
 c) Rotary boring d) Wash boring
- Q.6 In which type of operation, motion of cutting tool is rotary as well as translating?
 a) Planning b) Milling
 c) Drilling d) Turning
- Q.7 Which type of feed is needed in facing operation?
 a) Longitudinal
 b) Cross
 c) Both cross and longitudinal
 d) None of the mentioned
- Q.8 In shaper the job is kept _____.
 a) Stationary b) Rotating
 c) Reciprocating d) None of the mentioned
- Q.9 Which of the following is an example of non-cutting shaping process?
 a) Turning b) Forging
 c) Drilling d) Milling
- Q.10 Which stroke is idle strike in shaper?
 a) Forward b) Return
 c) Can't say anything d) None of the mentioned

Section-B

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

- Q.11 Lathe cannot produce internal features like holes. (True/False)

- Q.12 The most common value of lip relief angle of a drill is _____.
- Q.13 In lathe, bed ways are made of _____.
- Q.14 The value of side rake angle varies from _____ degree.
- Q.15 The jobs on shaper are held by _____ Vice.
- Q.16 Coolants and lubricants _____ tool life.
- Q.17 The head stock Center is called Dead center (True/False)
- Q.18 Write the function of boring bar.
- Q.19 High speed steel is also known as cobalt steel. (True/False)
- Q.20 A good lubricant should have _____ flash point.

Section-C

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

- Q.21 Explain standard planer with the help of neat diagram.
- Q.22 Explain briefly about working principle of a lathe machine with diagram.
- Q.23 Differentiate between up-milling and down-milling.
- Q.24 What is a boring bar? What are its various type? Explain.
- Q.25 Write the advantages or disadvantages of shaper machine.
- Q.26 Describe the main parts of planer machine.
- Q.27 Define cutting fluids. Enlist its different types.
- Q.28 Write a short note Universal dividing head.