

- Q.21 Describe the steps performed in finishing operations with example.
- Q.22 Write the various safety precautions according to grinding machine.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)
- Q.23 Explain the two gear manufacturing processes with diagram.
- Q.24 Enlist the various features of shot blasting operations and its applications.
- Q.25 Explain the main parts and functions of surface grinding machine with a neat diagram.

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Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which of the following process has the lowest cutting speed?
- a) Drilling b) Honing
c) Milling d) Turning
- Q.2 Which of the following a process is used to join two metals?
- a) Shot blasting b) Galvanising
c) Roll forming d) Welding
- Q.3 Which of the following motion does a milling machine has?
- a) vertical motion b) Crosswise
c) longitudinal motion d) all of the mentioned

- Q.4 Which type of job motion is there in drilling operation?
- a) rotary b) translating
- c) fixed d) none of the mentioned
- Q.5 Which of the following is not true about gears?
- a) Positive drive
- b) Constant velocity ratio
- c) Transmit large power
- d) Bulky construction
- Q.6 In which machining process, removed metal is negligible?
- a) surface finishing
- b) Lathe operation
- c) Jig Boring
- d) none of the mentioned

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Dimension accuracy is not affected in metal removal process? (True/False)
- Q.8 In _____ operation, the motion of cutting tool is rotary as well as translating?

- Q.9 Milling uses _____ material cutters.
- Q.10 _____ is a technique that uses electricity to bond a thin layer of metal to another metal surface.
- Q.11 A pantograph is used to copy and Scale diagrams. (True/False)
- Q.12 Define metal Spraying.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain the main parts of cylindrical grinding machine with a neat diagram.
- Q.14 What is a locating device? Enlist various method of locating hole.
- Q.15 Write a short note on jig boring machine.
- Q.16 Describe short blasting techniques.
- Q.17 Explain in detail Galvanizing with a neat diagram.
- Q.18 Enlist the various advantages of polishing.
- Q.19 Name the various jib boring operations. Explain any two.
- Q.20 Explain the following
- a) chucks
- b) Thread grinder