

- b) Discuss the function and type of the steady rest used on the lathe machine?
(4 + 6 marks)
17. a) Explain the various types of chips produced during the machining operation.
a) Illustrate the construction of column and knee milling machine with the help of diagram.
(3 + 7 marks)
18. a) Describe the construction of the pillar drilling machine with the help of the diagram?
b) Explain the principle of friction welding in detail.
(4 + 6 marks)
19. a) Define limits and tolerance. Explain the role of tolerance in manufacturing.
b) Explain the function of machine guards. Mention various types of the machine guards and briefly describe any two types of guards.
(6 + 4 marks)
20. a) Name the tools used in smithy shop. Explain any five smithy shop tools.
b) What do you understand by reaming operation?
(7 + 3 marks)
21. Explain the centerless grinding process with Suitable Diagram. Also define buffing process.
(7+3 marks)
22. a) Mention the directions to prevent the fire in an industry.
b) Illustrate the construction of shaping machine and describe the function of the main parts of the shaper machine.
(4 + 6 marks)

