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Question Paper Code: 44703

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Mechanical Engineering

14UME403 - MANUFACTURING TECHNOLOGY - II

(Regulation 2014)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Purpose of cutting fluid is to reduce _____
(a) wear (b) friction
(c) heat (d) all the above
2. Tool wear increases due to _____
(a) speed (b) feed (c) depth of cut (d) none
3. While machining, the quality of the product was decided by _____
(a) tool geometry (b) machine tool
(c) labour (d) force exerted
4. Tool signature is _____
(a) numerical method of identification of tool (b) specification
(c) plan of tool (d) none of the above

5. The process of removing metal by a milling cutter, which is rotated in the same direction as the feed of the work piece
- (a) Face milling (b) Conventional milling
(c) Up milling (d) Climb milling
6. The metal is removed in drilling machine by
- (a) Extrusion (b) Shearing
(c) Shearing and Extrusion (d) Shearing and Compression
7. Honing is an operation primarily used for finishing
- (a) Flat surface (b) Cylindrical surface
(c) Hole (d) Irregular surface
8. Internal gear cutting operation can be performed by
- (a) Milling (b) shaping with rack cutter
(c) shaping with pinion cutter (d) hobbing
9. Several machine tools can be controlled by a central computer in
- (a) Numerical Control machine tool
(b) Computer Numerical Control machine tool
(c) Direct Numerical Control machine tool
(d) Central- Computer Numerical Control machine tool
10. Part-programming mistakes can be avoided in
- (a) NC (Numerical Control) machine tool
(b) CNC (Computer Numerical Control) machine tool
(c) Both a and b
(d) None of these

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Briefly describe the different types of inserts used in metal cutting. (8)
12. Explain with neat sketch the methods used for taper turning operation in an engine lathe. (8)

13. Explain the universal dividing head and simple indexing methods with illustrative example for milling spur gear. (8)
14. Explain the honing process with neat sketches. (8)
15. What are the advantages of CNC machines over conventional methods. (8)