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B. E. (Fifth Semester) Examination, April-May 2019

(New Scheme)

(Mechanical Branch)

MANUFACTURING SCIENCE-II

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Part (a) from each question is compulsory.
Attempt any two parts from parts (b), (c) and
(d) of each question.*

Unit-I

- 1. (a) What is Super Finishing? 2

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- (b) Explain internal cylindrical grinding machies. 7
- (c) What is 'Lapping'? Describe different lapping methods. 7
- (d) What are the characteristics of Grinding Wheels? 7

Unit-II

- 2. (a) What do you understand by 'Unconventional Machining'? 7
- (b) Explain Abrasive Jet Machining (AJM) and its mechanism. 7
- (c) Explain 'Ultrasonic Machining' (USM) and its mechanism. 7
- (d) Explain 'Laser Beam Machining' (LBM) and give its applications. 7

Unit-III

- 3. (a) Define 'Fourming'. 2
- (b) Write characteristics, advantages and disadvantages of "Hot Working" and "Cold Working" processes. 7
- (c) Briefly discuss following "Basic Forging Operations": 7
 - (i) Upsetting

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- (ii) Heading
 - (iii) Fultering
 - (iv) Edging
 - (v) Drawing down
- (d) Describe cold hydrostatic extrusion and give its advantages. <https://www.csvtuonline.com> 7

Unit-IV

4. (a) Define 'Plate' and 'Sheet'. 2
- (b) Classify the rolling mill on the basis of number of rolls in stand and discuss if briefly. 7
- (c) Explain rolling defects. 7
- (d) Explain take drawing methods. 7

Unit-V

5. (a) Define Shaving. 2
- (b) Define various press operations given below with diagrams : 7
- (i) Blanking
 - (ii) Punching

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- (iii) Trimming
- (c) What is the principle of bending operation? Explain V-bending method. 7
- (d) Explain : 7
- (i) Coining
 - (ii) Spinning
 - (iii) Stretch forming

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