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Roll No. Total Pages: 03

July-22-00343

B. Tech EXAMINATION, 2022

Semester VI (CBCS)

MODERN MANUFACTURING PROCESSES

ME-608

Time: 3 Hours Maximum Marks: 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt Five questions in all, selecting one question from each Section A, B, C and D. Q. No. 9 is compulsory.

Section A

- Explain Ultrasonic machining with neat and clean diagram and also mention its merits and demerits. 10
- Differentiate between modern manufacturing processes and conventional manufacturing processes with suitable examples.

(5-08/17) W-July-22-00343

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Section B

3. Explain the working of abrasive jet machining with neat diagram and also mention its merits and demerits.

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4. Explain the working of Electrochemical machining with neat diagram along with its advantages. 10

Section C

- 5. Explain constructions, working and principle of EDM with neat and clean diagram.
- Explain constructions, working and principle of Laser beam machining with neat and clean diagram along with its merits, demerits and applications.

Section D

- 7. Explain mechanism of metal removal in plasma arcMachining with suitable example.10
- 8. Discuss process capabilities and limitations of electron beam machining.

(Compulsory Question)

- 9. Short answer type questions:
- $4 \times 5 = 20$
- (a) Discuss economic consideration of ultrasonic machining.
- (b) Define Metal removal rate.
- (c) Define the applications of dielectric fluid.
- (d) Define Machining accuracy.
- (e) Discuss applications of plasma jet.