Dec.-22-0248

ME-608 (Modern Manufacturing Process) B.Tech. 6th (CBCS)

Time: 3 Hours

Max. Marks: 60

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

Note: Attempt five questions in all, selecting one question each from sections A, B, C and D of the paper and all sub-parts of the Question 9 of section E is compulsory.

SECTION - A

- 1. What is modern manufacturing? Classify Modern manufacturing processes with suitable applications. (10)
- 2. Explain the working of water jet machining with neat and clean diagram. (10)

SECTION - B

- 3. Explain the working of electro chemical grinding with neat diagram. (10)
- 4. Explain the parameters required for selection of electrode material with suitable example. (10)

SECTION - C

- 5. Explain the metallurgical effects of laser beam machining with suitable example. (10)
- 6. Explain constructions, working and principle of plasma arc machining with neat and clean diagram along with its merits, demerits and applications. (10)

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SECTION - D

- 7. Explain constructions, working and principle of electron beam machining with neat and clean diagram along with its applications. (10)
- 8. Discuss the process required for tool electrode design with suitable example. (10)

SECTION - E (Compulsory Question)

- 9. Short Answer type questions.
 - (a) Discuss theory of electronic beam machining.
 - (b) Define surface finish and accuracy.
 - (c) Define the applications of wire cut EDM.
 - d) Discuss PAM parameters.
 - (e) Discuss applications of electrochemical grinding.

(5×4=20)

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