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Total No. of Questions: 09

B.Tech.(ME) (E-I 2011 Onwards) (Sem.-6) NON-TRADITIONAL MACHINING

Subject Code : DE/ME-2.0 M.Code : 71252

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly :

- a) State limitations of conventional machining process.
- b) What do you mean by computer integrated manufacturing?
- c) What are the main applications of abrasive flow machining?
- d) What is chemical machining?
- e) List the advantages of ECM.
- f) What are the main functions of dielectric fluid used in EDM?
- g) What is hot machining?
- Name various dielectric fluid flushing methods.
- i) What are the main electrolytes used in ECM?
- Write two safety precautions for plasma arc machining.

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SECTION-B

- Give the classification of non-conventional machining processes.
- 3) What are the main process elements of water jet machining?
- Explain with suitable diagrams the working principle of electrochemical machining.
- Discuss the mechanism of material removal in laser beam machining process.
- 6) What are the advantages of hybrid machining processes? Discuss any one type of hybrid machining process.

SECTION-C

- a) Explain the mechanism of metal removal in electric discharge machining process.
 - b) What factors should be considered while selecting EDM electrode material?
- Describe principle, process parameters, capabilities and applications of Ultrasonic machining.
- Write short note on Any Two of the following:
 - a) Principle of abrasive flow machining.
 - b) Electrochemical honing.
 - c) Generation of electron beam.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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