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Total No. of Pages : 02

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B.Tech.(ME) (E-I 2012 Onwards) (Sem.-6) **NON-TRADITIONAL MACHINING** Subject Code : DE/ME-2.0 M.Code: 71252

Time: 3 Hrs.

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students 3. have to attempt any TWO questions.

SECTION-A

- 1) **Answer briefly :**
 - (a) Briefly write about Flexible Manufacturing System.
 - (b) How are non conventional machining processes classified?
 - (c) Write the major application of non conventional machining processes.
 - (d) Write the advantages and applications of EDM.
 - (e) Explain how the abrasive selection made in USM.
 - (f) What are the functions served by dielectric fluid in EDM?
 - (g) With suitable examples write the applications of LBM.
 - (h) Briefly write about material removal in EBM.
 - (i) What possible errors are caused in EDM?
 - (j) What are hybrid machining processes? Enlist any four processes.

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SECTION-B

- 2. Describe the factors that should be considered in selecting the electrolyte in ECM.
- 3. Explain the working principle of Photochemical machining.
- 4. Explain the various methods used for preparing the masks for Chemical Machining.
- 5. Explain the disadvantages of relaxation circuit and show the alternative arrangement of pulse generator used in EDM.
- 6. Differentiate between Dual gas torch and Water-Injected torch in PAM.

SECTION-C

- 7. With suitable diagrams explain element of abrasive flow machining and write the applications and limitation of this process.
- 8. With suitable diagram explain the working principle of USM. Briefly explain the elements of the process.
- 9. Explain the electrolyte flow methods used in ECM giving their relative merits and applications.

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.