Max. Marks: 100

Reg. No.:....

Name:

Seventh Semester B.Tech. Degree Examination, November 2015 (2008 Scheme)

08.706.12: NON CONVENTIONAL MACHINING TECHNIQUES (M)

Time: 3 Hours

Instructions: i) Answer all questions from Part – A.
ii) Answer one question from Module in Part

PART - A

- 2. What are the special features of LBM when compared to other non-conventional methods?
- 3. What are the different tool materials used in EDM? Explain.
- 4. Explain the mechanism of abrasive jet machining.

1. Briefly describe the working principle of USM.

- 5. Discuss the factors affecting the metal removal rate in ECM.
- 6. What are the advantages of ECG over ordinary grinding methods?
- 7. Describe the process parameters of EDM.
- 8. List out the applications of USM.
- 9. Write short notes on the laser parameters used in LBM.
- 10. Explain the working principle of AJM with a sketch.

(4×10=40 Marks)

PART-B

Module - I

11. Explain the working principle of EDM and PAM with the help of sketches. Discuss their merits and demerits.

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OR

12. Describe how the process parameters affect the meatal removal rate in EDM. Also explain the advantages of EDM.

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Module - II

13. Explain the different process parameters which affect the process intensity of ECM.

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OR

14. Describe the basic principle and working of EBM using a neat sketch. What are its advantages and limitations?

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Module - III

15. Explain how USM is different from other non -conventional machining techniques.

Describe the metal removing process with a sketch.

20

OR

16. What are the different variables which affect the metal removal rate in AJM? Explain each one of them by clearly mentioning its role. Also write the applications of AJM.

20