Code No: 09A70309

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B. Tech IV Year I Semester Examinations, November/December-2013 UNCONVENTIONAL MACHINING PROCESSES (Machanical Engineering)

(Mechanical Engineering)

Time: 3 hours

b)

Max. Marks: 75

Answer any five questions All questions carry equal marks

- 1. List out the parameters to be considered while selecting non-traditional machining processes. Explain their role in selection process. [15] 2. Explain the influence of various controlling parameters on the metal removal rate in ultrasonic machining. 3. Discuss the features of equipment used in water jet machining. [15] 4. With the help of a neat sketch explain the construction and working of electrochemical honing process. 5. Explain the factors to be considered in selection of tool electrode and dielectric material. 6.a) Differentiate between thermal and non-thermal processes. Write a detailed note on the accuracy of cut and cutting speed of LASER. b) [15] Discuss the accuracy and surface finish obtained in plasma machining. 7.a)
- 8. With the help of a line diagram explain the construction, working and application of magnetic abrasive finishing. [15]

List out the characteristics expected from the maskant used in chemical machining.[15]
