Menoufia University

Faculty of Engineering

Shebin El- Kom

Dept.Production Engineering

Final Exam.

Academic Year: 2015 - 2016

Examiners:

Prof.Dr.Adel Abdelmaboud



Subject: NTM Code: level 600

Date: Jun / 8 /2016

Time Allowed: 3 Hours

Total Marks :100 Marks

Prof.Dr.M.S.Hewidy

Question (1)

- 1. What is the necessity of NTM processes?
- 2. Sketch the effect of the following parameters on MRR and surface finish in USM process: amplitude, frequencies abrasive size of WP material hardness, concentration of abrasive.
- 3. Sketch a simple flow-chart to show how you can select the suitable NTM process.
- 4. With a neat sketches, explain briefly the working principle of the USM machine, applications and limitations of the processes

Question (2)

- 1. What is the function of servo system in EDM process? Discuss and sketch how it works
- 2. Why it is good to avoid sharp corners in building dies?
- 3. How has orbiting reduces costs concerning electrodes?