[Total No. of Printed Pages1] **CODE NO:- Z-8182**

FACULTY OF ENGINEERING & TECHNOLOGY

M.E (Mechanical) Examination - June – 2015

Advanced Manufacturing Techniques

(Revised)

[Time: Three *Hours*] **[Max. Marks: 80]**

"Please check whether you have got the right question paper."

N.B
i) Solve any three questions from each section.
ii) Assume suitable data wherever required.
iii) Figures to right indicate full marks.
iv) Draw a neat sketch wherever required.

SECTION-A

Q.1 With a practical example, explain rapid fooling development and rapid prototype patterns with rapid tooling methods. 13

Q.2 Explain the evaporative casting also explain uniformity in casting and moulding 13

Q.3 What are different factors affecting the life of tool, how it affects? Suggest the methods to improve the life of tool. 13

Q.4 Write short note on (any two). 14
a) Casting process planning
b) Buffing
c) Plaster mould casting

SECTION -B

Q.5 To drill small holes suggest best nonconvectional maching process. How the process is carried out. Explain with neat skech. State the advantages of non conventional machining process. 13

Q.6 Explain with neat sketch compression molding process. What are different process parameters? Explain them. 13

Q.7 State the raucous for carring out metallic coating. Explain electrodes eating process. How it is carried out with practical example. 13

Q.8 Write short note on (any two). 14
a) Thermal spray coating
b) Blow molding
c) Water jet machining.