

SUBJECT CODE NO:- P-8163
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Mechanical) Examination May/June 2017
Advanced Manufacturing Techniques
(Revised)

[Time : Three Hours]

[Max Marks :80]

- N.B
1. Figures to the right indicate full marks.
 2. Attempt any three questions from section A and any three questions from section B

Section A

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| Q.1 | a) Explain selection of steps and process parameters for casting process. | 07 |
| | b) What is design for casting? | 06 |
| Q.2 | a) What are rapid prototype patterns? | 07 |
| | b) What are the various rapid tooling methods? | 06 |
| Q.3 | a) Explain the importance of tool chip interface friction. | 07 |
| | b) What is tool condition monitoring? How it is performed? | 06 |
| Q.4 | a) What are the applications of Lapping and honing process? | 07 |
| | b) Explain tool life and tool temperature for machining process. | 07 |

Section B

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| Q.5 | a) What is the principle and working of Abrasive Jet machining? Give applications. | 07 |
| | b) Explain wire-EDM. What are the applications of wire EDM process? | 06 |
| Q.6 | a) Explain micro drilling by laser beam. | 07 |
| | b) What is magneto abrasive finishing? | 06 |
| Q.7 | a) What is Roto moulding? | 07 |
| | b) Explain principle and working of injection moulding process. | 06 |
| Q.8 | a) What is physical vapor deposition? Give its applications | 07 |
| | b) What is electroplating? Why it is done? | 07 |