

**SUBJECT CODE NO:- P-498**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**S.E.(Mech/Prod) Examination MAY/JUNE-2016**  
**Production Processes-II**  
**(Revised)**

[Time: Three Hours]

[Max Marks:80]

“Please check whether you have got the right question paper.”

N.B

- 1) Q. no 1 from section A & Q. no 6 from section B are compulsory.
- 2) Solve any two questions from each section other than Q. no 1 & Q. no 6.
- 3) Figures to the right indicate full marks.

**Section A**

- |     |  |          |
|-----|--|----------|
| Q.1 | Solve <u>any five</u> of the following   | 10       |
|     | <ol style="list-style-type: none"> <li>a) Define CIM.</li> <li>b) Which are various types of cutting fluids?</li> <li>c) Enlist different taper turning methods.</li> <li>d) Enlist the requirements of the cutting tool material.</li> <li>e) What is oblique cutting?</li> <li>f) What is face plate?</li> <li>g) Explain working principle of Lathe.</li> <li>h) Enlist work holding devices used in Milling.</li> <li>i) What is gang milling?</li> <li>j) Enlist different types of milling cutters.</li> </ol> |          |
| Q.2 | <ol style="list-style-type: none"> <li>a) Explain different types of chips produced during machining processes.</li> <li>b) What are the economies of machining?</li> </ol>  | 08<br>07 |
| Q.3 | <ol style="list-style-type: none"> <li>a) Explain different types of lathe machines.</li> <li>b) Explain various tool holding &amp; work piece holding devices for lathe.</li> </ol>   | 07<br>08 |
| Q.4 | <ol style="list-style-type: none"> <li>a) With neat sketch explain the working of universal dividing head.</li> <li>b) Enlist &amp; explain operations performed on milling machine.</li> </ol>  | 08<br>07 |
| Q.5 | <ol style="list-style-type: none"> <li>a) What are the different operations performed on lathe machine? Explain.</li> <li>b) Explain different types of chip breakers.</li> </ol>  | 08<br>07 |

**Section B**

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|-----|--|----|
| Q.6 | Solve <u>any five</u> of the following   | 10 |
|     | <ol style="list-style-type: none"> <li>a) Enlist principle parts of shaper.</li> <li>b) Classify slotter machines.</li> <li>c) Explain working principle of planer.</li> <li>d) What is function of 'flute' of twist drill?</li> <li>e) What are advantages of broaching?</li> <li>f) Enlist the different types of bonds used in grinding wheel.</li> <li>g) State working principle of EDM.</li> <li>h) What are the advantages of IBM?</li> <li>i) What are the applications of AIM?</li> </ol> |    |

Q.7	a) Classify grinding machines & explain any one with neat sketch.	08
	b) Explain with neat sketch twist drill nomenclature.	07
Q.8	a) Explain different operations performed on shaper.	08
	b) With neat sketch explain principle parts of slotter.	07
Q.9	a) With neat sketch explain ECM. Also state its advantages.	08
	b) Explain plasma arc machining.	07
Q.10	a) Classify drilling machines & explain any one with neat sketch	08
	b) Write a short note on broaching tools.	07