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**SUBJECT CODE NO:- E – 170**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**S.E.(Mech/Prod) Examination Nov/Dec 2017**  
**Production Processes-II**  
**(OLD)**

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- 1) Question No. 1 from section A and Q.No.6 from section B are compulsory.
  - 2) Attempt any two questions from Q.No.2 to Q.No.5 in section A and any two questions from Q.No.7 to Q. No. 10 in section B.
  - 3) Figures to the right indicate full marks.
  - 4) Assume suitable data whenever necessary.

**Section A**

- Q.1 Attempt any five questions from the following:- 10
- a) What are the various materials used for Cutting Tools in machining process?
  - b) What is chip breaker?
  - c) What is Mechanization?
  - d) What is/are the functions of cutting fluids?
  - e) Define cutting speed and feed rate.
  - f) Enlist Lathe Attachments.
  - g) What are the types of Lathe Machines?
  - h) What are the applications of universal dividing head?
  - i) What are the various types of Milling Machines?
  - j) Enlist milling cutters.
- Q.2 a) What are the various types of cutting tools used in machine tools? 08  
b) What are the various types of chips generated during machining? 07
- Q.3 a) Explain orthogonal and oblique cutting. 08  
b) What are the various operations performed on Lathe Machine? 07
- Q.4 a) What are the various Lathe Accessories used during machining? 08  
b) Explain the Principle and working of Universal Milling Machine. 07
- Q.5 a) With neat sketch explain gear hobbing. 08  
b) What are the various workpiece holding devices use in milling machines? 07

**Section B**

- Q.6 Attempt any five questions from the following:- 10
- a) What are the various types of shapes?
  - b) What are the types of wheels in grinding process?
  - c) What are the functions of broach tool?
  - d) What is grit and grade in grinding process?
  - e) What is the need of non traditional machining?
  - f) What are the functions of slotter?
  - g) Enlist work holding devices for drilling process.
  - h) What are boring bars?
  - i) What are the applications of Laser Beam Machining process?
  - j) What is ultrasonic machining?
- Q.7 08
- a) How dressing and truing of grinding wheel done?
  - b) Explain the principle and working of Shaper Machine. 07
- Q.8 08
- a) With neat sketch and applications explain Jig Boring Machine.
  - b) What are the various types of surface grinders? Explain any one with neat sketch. 07
- Q.9 08
- a) Explain Push and Pull type of broach.
  - b) What is Abrasive Jet Machining? Explain with neat sketch giving examples. 07
- Q.10 08
- a) Explain EDM process. Give its applications.
  - b) With neat sketch explain Electro Chemical Grinding. 07