Total No. of Questions: 8]

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Roll No

IP/IEM/ME/PR-603 (GS)

B.E. VI Semester

Examination, December 2017

Grading System (GS)

Metal Cutting and CNC Machines

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

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ii) All questions carry equal marks

Describe the method of producing threads on a lathe machine.

With the help of simple sketches, explain any seven lathe operations.

- 3. Describe the different types of bonds used in grinding wheels along with their applications.
- 4. With the help of neat sketch, explain the centreless grinding process. Also write its applications.
- Describe the working of a universal dividing head.
- 6. Explain the process of cutting gears on a milling machine.
- 7. What is die casting? Describe different types of die casting.

Answer any four of the following:

- What is meant by tool signature? Explain.
- What is the role of abrasives in a grinding wheel? Name a few common abrasives.
- Differentiate among vertical, horizontal and universal milling machines.
- Draw the block diagram of a shaper and mention the important parts on it.
- e) What is the importance of mechatronics in mechanical engineering?
- What is a transducer? What are its applications?

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