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Roll No

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

B.E. VI Semester

Examination, May 2018

Grading System (GS)

Metal Cutting and CNC Machine

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- What are the different types of lathes? Discuss in brief.
 - Explain the various important accessories of a lathe machine. rgpvonline.com
- Explain in brief the selection of a grinding wheel.
 - Draw a schematic diagram of centre-less grinding machine and explain the through feed process of centre-less grinding.
- Explain the process of up-milling and down milling. What are the advantages of each process?
 - Describe in brief various types of milling machines.
- Explain in brief the quick return mechanism used in shaper.
 - b) Discuss the various causes of surface irregularities.

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- Explain briefly the open loop and closed loop type control system.
 - Discuss the difference between the NC and CNC machines.
- How tool geometry affects the cutting parameters? Discuss in brief.
 - What are the different types of drilling machines?
- Explain in brief the different methods of gear manufacturing.
 - What is part programming? Explain the different steps during the preparation of a part program.
- Write short notes on:
 - Broaching
 - CLA values
 - PLC c)

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