Total No. of Questions: 8]

[Total No. of Printed Pages: 2

Roll No

ME-6004 (CBGS)

B.E. VI Semester

Examination, May 2019

Choice Based Grading System (CBGS)

Metal Cutting and Machine Tools

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) What is the importance of machining in modern industry?
 - b) What is a tenet lathe. Why is it more useful?
- 2. a) Name various methods of cutting external thread. Explain the working principle of any one method.
 - b) Draw a neat sketch of a single point cutting tool and describe its features.
- 3. Explain the following:

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- i) Up milling process
- ii) Specification of universal milling machine.
- 4. a) How are drilling machines classified?
 - b) What is Broaching? What are its advantages and applications?

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[2]

- a) Describe the crank and slotted lever quick return motion mechanism.
 - b) How is surface quality measured?
- 6. a) Explain forming of gear.
 - Name various gear finishing operations and explain gear grinding process.
- 7. a) Define the following type of wear
 - Flank wear
 - ii) Chipping
 - b) Explain the relationship of tool temperature and tool life.
- 8. Write short notes on any three
 - i) Tool signature and nomenclature
 - ii) Cylindrical grinding
 - iii) Wheel turning and dressing
 - iv) Centreless grinding

79

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