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Roll No

ME-8001 (CBGS) B.E. VIII SemesterExamination, June 2020 Choice Based Grading System (CBGS) Advance Machine Design

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) Explain the different phases of machine design.
 - b) What do you mean by uncertainty? How does it affect designing process?
- 2. What are the points considered while designing based on?
 - i) Theory of elasticity
 - ii) Theory of plasticity
- 3. Discuss different theory of failures.
- 4. a) What are different lubrication parameter which play a role during design?
 - b) Explain different types of wear in brief.
- 5. a) Why tolerances are equired in mating parts?
 - b) Discuss salient catures of designing a unsymmetrical section.
- 6. What is a strain gauge? Explain different types of strain gauges.
- 7. a) What is photoelasticity? Explain.
 - b) Draw and explain any potentiometric circuit.
- 8. Write short notes on any two :
 - a) Design based on propagation of defects
 - b) Design of parts subjected to unsymmetrical bending
 - c) Effect of surface characteristics on designing.
 - d) Design software and its advantages

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