Total No. of Questions : 8]

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Roll No

ME-8001-CBGS

B.E. VIII Semester

Examination, December 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. What is a strain gauge? Explain different types of strain gauges.
- 2. a) Explain the stages involved in the design of a machine element.
 - b) Discuss the design for reliability.
- 3. a) What's photoelasticity? Explain.
 - b) Fraw and explain any potentiometric circuit.
- 4. a) What is the difference between elastic design and plastic design?

b) What is probability? Explain the normal curve.

- 5. Write short notes on:
 - i) Corrosive wear
 - ii) Lubricant additives

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- 6. a) Explain the Technical Systems, System Approach Fundamentals of Design process.
 - Discuss the design on Uncertainty and Reliability. b)
- 7. a) Discuss about effect of variable co-efficient of Friction.
 - What are the effects of surface characteristics? b)
- Write about Limit Design Analysis. 8. a)
- e examples

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