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Roll No

CE-110-CBCS
B.E. I & II Semester
Examination, June 2020
Choice Based Credit System (CBCS)
Engineering Mechanics
Time : Three Hours

Maximum Marks: 60

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. What are different methods to analyses a Plane Truss? Also explain their limitations.
2. a) Define Coplanar and Concurrent forces.
b) Define “Varignons’s” theorem.
3. Give a classification of Engineering mechanics.
4. Define and deduce an expression for Lamé’s theorem.
5. What is Radius of Gyration? Explain its importance in Engineering mechanics.
6. Explain Newton’s laws of motion. Also explain law of Gravitation.

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7. What is mass moment of inertia? Also describe mass moment of inertia of composite section.

OR

What do you understand by “Kinetics” and “Kinematics”? Also explain statistics of engineering mechanics.

8. Write short notes on any two of the following :
- a) Law of triangle of forces
 - b) Free body diagram
 - c) Couple and Moment
