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Enroll No.....

**CE-11**

**B.Tech.–I Sem. (Reg./Ex) & II (Ex.)**

**Examination, March-2021**

**Basic Civil Engineering & Mechanics**

**Time: Three Hours**

**Maximum Marks:70**

- Q.5 (a) What do you understand by reciprocal leveling? Explain.
- (b) Discuss various types of Doors and windows .
- Q.6 (a) Define “Free body Diagram”. Also explain Bow’ s notation.
- (b) Define method of joint and method of section to analyze a plane truss with suitable example.
- Q.7 (a) What is concrete? Describe the process of preparation of concrete. What do understand by the term workability of concrete? How it is detect.
- (b) Define and deduce an expression for parallel Axis theorem.
- Q.8 Write short notes on any four of the following
- (a) Workability of concrete
- (b) Shallow and deep foundation
- (c) Survey stations
- (d) Coplanar and concurrent forces
- (e) Radius of Gyration

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Note: Attempt any five questions. (Each question carries equal marks)

- Q.1 How many types of bricks, explain briefly? What are the various field test applied on bricks.
- Q2 (a) List of various field and laboratory test of Cement Discuss any two tests in detail
- (b) Discuss plastering and pointing in civil
- Q3 (a) What do you understand by “EDM” ? Also discuss its application in Civil Engineering. “EDM”
- b) Draw a neat sketch of “Theodolite” with s nomenclature of all parts.
- Q4 (a) What do you understand by the tern Contour? Also discuss its properties.
- (b) What is “remote sensing” ? Clearly explain its working and uses in civil engineering.