

V22/A24011/EE/20160708

Time : 1 Hour 30 Minutes

Marks : 40

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 40 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) State and explain all the systems of units in detail. 5
 - b) Explain in detail the term, factor of safety. 5
 - c) Write short notes on elements of structure. 5
 - d) What are the types of supports? Explain their characteristics. 5
 - e) State the relation of natural and manmade forms. 5
2. Solve any **four** sub-questions.
 - a) Differentiate between the strength and stability of structures. 5
 - b) Write short notes on the types of loads acting on a structure. 5
 - c) Write short notes on (any two): 5
 - i) Hooke's law
 - ii) Elastic Limit
 - iii) Shear stress
 - d) What are the primary and secondary forces acting on structures? 5
 - e) What are the functions of structures? 5

