## BACHELOR OF TECHNOLOGY (C.B.C.S.) (2021-COURSE) B. Tech. Sem - I :SUMMER- 2022 SUBJECT : CIVIL ENGINEERING STRUCTURES & GEOLOGY

Day :- Thursday Date: 21-07-2022 Time 10:00 AM: TO 1:00 P.M. S-24033-2022 Max. Marks: 60 N.B. 1) All questions are **COMPULSORY**. 2) Figures to the **RIGHT** indicate **FULL** marks. 3) Use of non-programmable calculator is allowed. 4) Assume suitable data WHEREVER necessary. 5) Draw neat labeled diagrams wherever necessary. Q.1 Explain various functions served by Civil Engineering Structures. Give the details (10) of load bearing structures. OR Explain various special structure like nuclear reactors, towers, chimneys. Q.1 (10)What are the Solid structures and tabular structures? Explain in detail. Q.2 (10)OR Q.2 Write a detailed note on following: (10)a) Cavity walls b) Shear walls. Explain in detail: i) Green building ii) Intelligent building. Q.3 (10)Describe water and soil conservation from a structure. Q.3 (10)What is a mineral? Give classification of minerals. 0.4 (10)**Q.4** Elaborate different textures of Igneous Rocks. (10)Elaborate mode of occurrence of Igneous Rocks. (10)Q.5 What is unconformity? Elaborate types of unconformities. Q.5 (10)Elaborate surface investigation for Civil Engineering Structures. **Q.6** (10)Q.6 Elaborate preliminary geological investigation for tunnel. (10)

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