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Question Paper Code: 93102

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2020

Third Semester

Civil Engineering

19UCE302 – ENGINEERING GEOLOGY AND CONSTRUCTION MATERIALS

(Regulation 2019)

Duration: One hour

Maximum: 30Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Which one is an Oxide Mineral? CO1- R
(a) Quartzites (b) Calcite (c) Dolomite (d) Magnesite
2. Hardness value of Augite is, CO1- R
(a) 5 (b) 4 (c) 10 (d) 7
3. Average Radius of the earth CO2-R
(a) 6400Km (b) 6700Km (c) 6371Km (d) 6471Km
4. Fold is up arched and convex upwards is called CO2- R
(a) Anticline (b) Polycline (c) Monocline (d) Syncline
5. The standard size of brick as per Indian standard is CO3- U
(a) 20*10*10 cm (b) 23*12*8 cm (c) 19*9*9 cm (d) 18*9*9 cm
6. Water absorption limit for a good quality brick is CO3- R
(a) 20% (b) 10% (c) 5% (d) 25%
7. If p is the standard consistency of cement, the amount of water used in conducting the initial setting time test on cement is CO4- U
(a) 0.65 p (b) 0.85p (c) 0.6p (d) 0.8p
8. Initial Setting time of cement is CO4- R
(a) 10 min (b) 20 min (c) 30 min (d) 40 min
9. Due to attack of dry rot, the timber CO5- U
(a) Cracks (b) Shrinks
(c) Reduces to powder (d) None of the above

10. Which of the following stresses is used for identifying the quality of structural steel? CO5- U

- (a) Ultimate stress (b) Yield stress (c) Proof stress (d) None of the above

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain engineering properties of rocks. CO1- U (8)
12. Give a detail note on internal structure of the earth with neat diagram. CO2- U (8)
13. Briefly explain different types of brick masonry with a neat sketch. CO3- U (8)
14. Explain In Detail About Any 5 Types Of Cement. CO4- U (8)
15. Name the various methods of manufacture of steel and explain the Bessemer process. CO5- U (8)