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Question Paper Code: 33103

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

Third Semester

Civil Engineering

01UCE303 - ENGINEERING GEOLOGY

(Regulation 2013)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

- Which one belongs to the layer of earth?
(a) Regolith (b) Troposphere (c) Crust (d) Epicentre
- New sea floor is created at
(a) deep sea trench (b) mid-oceanic ridge (c) subduction zone (d) transform fault
- The tendency of the mineral to break along certain direction is known as
(a) Lustre (b) Cleavage (c) Specific gravity (d) Hardness
- What is the hardness of Quartz?
(a) 1 (b) 7 (c) 6 (d) 5
- Factor affecting metamorphism are
(a) Temperature and Pressure (b) Moisture and Air
(c) Weathering (d) None of these

6. Which one of them is used for architecture work?
(a) Limestone (b) Shale (c) Marble (d) None of these
7. What is outcrop?
(a) Rocks formed inside the earth (b) Rocks formed inside ocean
(c) Rocks formed due to magma (d) Rock exposure on earth surface
8. Geophone are used in_____ survey.
(a) Seismic (b) Geochemical (c) Gravity (d) Electrical
9. Arrangement of aerial photograph referred as
(a) aerial mosaic (b) tilted photograph
(c) horizontal photograph (d) spatial signature
10. The refractive index of the ocean water is
(a) Increases with salinity (b) Increases with temperature
(c) Decreases with temperature (d) Decreases with salinity

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Discuss the importance of geology in the field of civil engineering projects. (8)
12. Describe the classification and physical properties of quartz family. (8)
13. Describe the mode of formation, classification and structures of sedimentary rocks. (8)
14. What is a fold? Describe the various classifications of fold with neat sketch. (8)
15. Discuss about the landslide, its cause and preventive measures in detail. (8)