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Question Paper Code: 43103

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

Third Semester

Civil Engineering

14UCE303 - ENGINEERING GEOLOGY

(Regulation 2014)

Duration: One hour

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
- 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. Write about the geological work of wind and their engineering consideration. (8)
12. What are the rock forming minerals? Give a general account of their Chemical and Physical properties. (8)
13. Distinguish igneous, sedimentary and metamorphic rock. (8)
14. Explain the parts of a fault. Bring out the important types of faults with neat diagrams. (8)
15. Explain the geological requirements which will have to be investigated for selecting a site for a tunnel. (8)