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# P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Civil Engineering

Semester End Examination; Aug. / Sep. - 2020

Earth Science and Natural Resources

*Dr. N. L. Murali Krishna*

Time: 3 hrs

Max. Marks: 100

Note: i) Answer **TWO** full questions, selecting **ONE** full question from **UNIT - I** and **UNIT - II**.

ii) Answer any **THREE** full questions, choosing from **UNIT - III**, **UNIT - IV** and **UNIT - V**.

## UNIT - I

- 1 a. Define minerals. Explain different types of minerals. 10  
b. Describe internal structure of earth with neat sketch. 10

## OR

- 2 a. Define Rocks. Explain different types of rocks. Add a note on uses. 10  
b. Describe important characteristic features of Igneous rocks. 10

## UNIT - II

- 3 a. Describe Earthquake. Explain the causes and effects of Earthquake. 10  
b. Define volcanoes. Explain different types. 10

## OR

- 4 a. Define soil. How it forms? List out different types of soil. 10  
b. Explain landslide. Add a note on causes and remedial measures to control landslides. 10

## UNIT - III

- 5 a. List out the differences between JOINTS and FAULT. 10  
b. Define fault. Explain parts of fault with neat sketch and add different types of fault with sketch. 10  
6 a. Define unconformities. Explain different types with neat sketches. 10  
b. Define fold. Explain parts of fold with neat sketch. Give different types of fold with neat sketch. 10

## UNIT - IV

- 7 a. Write short notes on : 10  
i) Aquifers ii) Rain water harvesting  
b. What is Biofuels? Explain the benefits of Biofuels. 10  
8 a. Write short notes on : 10  
i) Cone of depression ii) Hydrological cycle  
b. Write short notes on : 10  
i) Bore well recharge ii) Ground water pollution

## UNIT - V

- 9 a. Write short note on : 10  
i) Types of Dam ii) Types of tunnel  
b. Write short notes on : 10  
i) Bridge ii) Parts of dam  
10 a. Explain Global Position System. 10  
b. Applications Global Position System. 10

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