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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; July - 2021

Earth Science and Natural Resources

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. With a neat sketch, explain the internal layer of earth and add a note on earth discontinuity. 10
- b. Define minerals. Explain physical properties in detail. 10
- 2 a. Explain how sedimentary rocks are form? 10
- b. Write short note on; 10
 - i) Textures
 - ii) Metamorphism
- 3 a. Describe soil and soil profile. Add a note on classification and types of soil. 10
- b. Describe Landslide. Add a note on causes and remedial measures to control landslide. 10
- 4 a. What is Earthquake? Explain seismograph with neat sketch and write note on distribution of earthquake in India. 10
- b. Write short notes on; 10
 - i) Focus and epicenter
 - ii) Volcanoes
- 5 a. Write short notes on; 10
 - i) INLIER and OUTLIER
 - ii) Importance of Joints
- b. Write differences between JOINTS and Fault. 10
- 6 a. Write short notes on; 10
 - i) HORST and GRABEN fault
 - ii) Angular and Disc conformity
- b. Define folds. Explain different types with neat sketch. 10
- 7 a. Write short notes on; 10
 - i) Ground water pollution
 - ii) Hydrological cycle
- b. Write short notes on; 10
 - i) Benefits of Biofuel
 - ii) Subsurface water distribution
- 8 a. Write short notes on; 10
 - i) Cone of depression
 - ii) Rain water harvesting
- b. Write short notes on; 10
 - i) Aquifers
 - ii) Bore-well recharge
- 9 a. Write short note on; 10
 - i) GIS Application
 - ii) Global Position System (GPS)
- b. What is Dam? Explain the importance and types of Dams. 10
- 10 a. What is tunnel? explain different types of tunnel with sketch. 10
- b. Describe the bridge structure with neat figure . 10