CE8392 ENGINEERING GEOLOGY

Important 13 Mark Questions

Part-B

1. Illustrate the geological work of sea and its Engineering considerations.
2. Demonstrate the landform and process associated with ground water.
3. Explain the features, Chemical composition, physical properties, varieties, origin and uses of Feldspar Family of various minerals.
4. Explain the physical properties of common rock forming minerals.
5. Distinguish in detail about the physical properties and uses of Feldspar and Pyroxene group of minerals.
6. Distinguish in detail about the Chemical composition, physical properties, origin, varieties and uses of Amphibole, Calcite and Mica group of minerals.
7. Discover a general view of internal structure of the earth as revealed by the seismological evidence.
8. Analyze the process of weathering of rocks and comment on the effects of weathering on the Engineering properties of rock.
9. Explain the mineralogical composition, texture, engineering properties and uses of Laterite, Basalt, Quartzite, Shale, Slate and Gneiss.
10. Explain on textural and structural classification of igneous rock.
11. Differentiate Igneous, Sedimentary and Metamorphic rocks on the basis of Structure and texture?
12. Differentiate with the characteristics, mineralogical composition, texture Engg properties and uses of Granite, Dolerite, Sand stone, Lime stone, Schist and Marble.
13. Explain on faults, their causes and effects on the Engg quality of rocks.
14. Explain with neat sketches on folds, classification of folds, folding processes and there civil Engg significations.
15. Examine how faults and folds affect the choice of location for dams and tunnels.
16. Examine how seismic and electrical methods help in know about sub surface features during civil Engg investigations.
17. Analyze the dam disaster? Discuss these geological situations which when ignored could be the cause of the possible dam disaster.

18. Examine the important geological factors governing coastal prone and give various coastal protection structures.
19. List out the components of Remote sensing and applications of Remote sensing?
20. Categorize Remote sensing and Photogrammetry?
21. List out with appropriate figure on the types, causes of landslide and their migration measures.
22. Examine with case studies, explain how ground water investigation and exploration is carried out by civil engineers.
23. Analyze the lithological and structured aspect is the primary consideration for the selection of the suitable sites and design of tunnels. Using appropriate case studies.
24. Evaluate an account of causes of inherent weakness in rocks. How rock qualities could be improved by artificial treatments.