



50252



PART – B

(5×13=65 Marks)

11. a) Explain the process of weathering in detail and comment on the role of weathering in influencing strength of rocks.

(OR)

b) Explain in detail on the geological actions of streams and rivers. Write a note on its significance in Civil Engineering constructions.

12. a) Write in detail on the following properties of minerals :

(i) Specific Gravity (ii) Hardness (iii) Fracture (iv) Crystalline Structure.

(OR)

b) Explain the structure and physical properties of clay minerals.

13. a) List the various engineering properties of rocks and give a detailed account of the field and laboratory tests to be conducted to determine such properties.

(OR)

b) Mention the mineralogical composition, texture, origin and uses of (i) Limestone (ii) Slate (iii) Marble.

14. a) Illustrate with neat sketches on folds, classification of folds, folding processes and their Civil Engineering significance.

(OR)

b) Give an account of the procedure for seismic refraction survey methods.

15. a) Enumerate with appropriate figures on the types, causes of landslides and their mitigation measures.

(OR)

b) Explain the important geological factors governing coastal process and give various coastal protection structures.

PART – C

(1×15=15 Marks)

16. Lithological and structural aspects are the primary considerations for the selection of suitable sites and design of tunnels. Using appropriate case studies or examples, explain the validity of this statement.

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