

Roll No.

Total Pages : 3

002401

August/September 2022
B.Tech. (Civil) IV SEMESTER
GEOLOGY FOR ENGINEERS (PCC-CE-202R)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Define Geology. (1.5)
- (b) What is epicenter? (1.5)
- (c) Give *two* examples of sedimentary rocks. (1.5)
- (d) Define dip. (1.5)
- (e) What does "river meandering" mean? (1.5)
- (f) What do you mean by Richter Scale? (1.5)
- (g) Define rock bolting. (1.5)

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- (h) Define Streak. (1.5)
- (i) How do you identify a mineral in XRD? (1.5)
- (j) Define subsidence. (1.5)

PART-B

- 2. (a) Explain the branches of geology in detail. (10)
- (b) Describe the different physical properties which help in the identification of minerals. (5)

- 3. (a) What is metamorphism? Explain with examples. (5)
- (b) Explain some of the physical properties of rock or a mineral and why they are useful for civil engineer? (10)

- 4. Explain what is weathering and its importance in civil engineering constructions? (15)

- 5. (a) What are the main types of volcanic eruptions? Discuss in brief the resulting features. (5)
- (b) What are landslides? Describe the causes and control measures. (10)

- 6. (a) What is fold? Give brief classification of fold. Also explain mechanism of folds with sketches. (10)

- (b) What are broadly accepted causes of faulting of rocks? (5)

- 7. What is a dam? With what purposes it will be constructed? Explain in detail the geological investigations of a good dam site. (15)
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