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B. Tech 6th Semester (Civil) Examination – May, 2018

ENGINEERING GEOLOGY

Paper: CE-312-F

Time: Three Hours 1 l Maximum Marks: 100 Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: (i) Question No. 1 is compulsory. Attempt one question from each Section.

- (ii) All questions carry equal marks.
- (iii) Assume missing data, if any, suitable.
- Explain the following:
 - (a) Weathering the surface of the earth
 - (b) Artesian wells and springs
 - Rock forming minerals
 - (d) Volcano and Earthquake
 - (e) Retaining walls

24383-4100-(P-4)(Q-9)(18)

P. T. O.

- http://www.HaryanaPapers.com Importance of soil profile
- Specific yield
- Petrology and structural geology
- Cone of depression
- Types of tunnels

20

SECTION - A

2. (a) Name and Explain sub divisions of Engineering Geology? Also explain the objectives of Geology.

10

- (b) Describe in brief the crust, the mantle and core of the carth. 10
- 3. (a) Explain the external and internal geological forces causing changes of the surface of the earth. 10
 - (b) Explain the geological work of ice, water and wind in brief. 10

SECTION - B

- 4. (a) Explain the mineral composition, Textures, structure and origin of sedimentary and metamorphic rocks. 10
 - (b) What is the mineral and list the physical properties of the minerals with brief description?

10

24383-4100-(P-4)(Q-9)(18) (2)

5.	(a)	Describe in actail about different types	of folds
		and faults with sketches.	10

(b) Explain in detail the importance of different geological structures in Civil Engineering projects.

SECTION - C

- 6. (a) What do you mean by geological investigations?
 Explain the remote sensing techniques for geological and hydrological survey and investigation.
 10
 - (b) What is aquifer? Describe in detail the different types of aquifers.
 10
- Describe the following in brief:
 - (a) Techniques of artificial ground water recharge.
 - (b) Difference between perched water table and ground water table
 - (c) Springs and artesian well.
 - (d) Geological maps and interpretation of data

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- (a) Explain the suitability and stability of foundation sites and abutments.
 - (b) What are the objectives of a dam? Describe geological considerations in the selection of a dam site.
- 9. (a) Describe the improvement of foundation rocks. What are the precaution and treatment against faults, joints and ground water?
 10
 - (b) Write down the internal and external causes of landslides. State the measures to control slides. 10

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