Hall	Tie	Code No.: 21014 S	
		VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD B.E. II Year (Civil Engg.) I-Semester Supplementary Examinations, May/June-2017	
		Time: 3 hours Note: Answer ALL questions in Part-A and any FIVE from Part-B	
		Part-A (10 X 2=20 Marks)	
1	• .	Write the physical properties of Olivine.	
2		What is stratification?	
3		What are release and extension joints?	
4		Draw a neat sketch of recumbent fold and label the parts.	
5	j.	Define the terms aquiclude and aquifuge.	
6	ó.	What is a spring?	
7	7.	Define spillway of a dam.	
8	3.	Write about the reservoir induced seismicity.	
9).	What is a pay line and overbreak of tunnel?	
1	10.	Define epicentre and hypocentre.	
		Part-B $(5 \times 10 = 50 \text{ Marks})$	
1	11.	a) What are the physical properties of minerals? Discuss them in detail with suitable examples.	[5]
,		b) Define the term texture of rocks and explain the types of textures in igneous rocks.	[5]
1	12.	a) What is a fault? How are faults classified and describe different types of faults.	[7]
		b) What is slake durability index? Explain it.	[3]
	13.	a) Write an essay on ground water exploration.	[7]
		b) Describe vertical distribution or zones of groundwater.	[3]
	14	a) What is a dam? What are the geological considerations in dam site selection?	[7]
		h) Discuss a dam failure that you know	[3]

15. a) Discuss the role of various structural features to be considered in the selection of a tunnel

b) What is an earthquake, list out the causes and effects of earthquakes?

ii) sandstone.

b) Explain the various types of unconformities. Add a note on their recognition.

16. a) Discuss geological and geotechnical properties of the following rocks

i) granite

17. Answer any two of the following:

Types of aquifers.

b) Geology of any major dam site of India.c) Causes and remedial measures of land slides.

[5]

[5]

[5]

[5]

[5]

[5]

[5]