

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL/MAY 2026***Sixth Semester**Civil Engineering***AG3601 - Engineering Geology***Regulations - 2021**Duration : 3 Hrs**Maximum : 100 Marks***PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Name any four branches of geology.	L1	1	2
2.	What is meant by seismic zones?	L2	1	2
3.	Identify the different physical properties of minerals.	L2	2	2
4.	State petrology.	L1	2	2
5.	Contrast strike and dip.	L2	3	2
6.	What is meant by RMR? Mention its significance.	L2	3	2
7.	Outline Remote Sensing.	L1	4	2
8.	List the methods of Geophysical Exploration.	L2	4	2
9.	Identify Geological Considerations involved in road cutting.	L2	5	2
10.	List any two causes of Earthquakes.	L1	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Explain in detail about the structure of the earth and its composition with a neat diagram. Or	L2	1	16
	b Mention the concept of plate tectonics and describe how earthquake occurs. Add a note on the distribution of earthquake in India.	L2	1	16
12.	a Write a detailed note on the physical properties, Chemical properties of Quartz group of minerals. Or	L2	2	16
	b How are rocks classified? Describe the major distinguishing properties of the major rock types.	L2	2	16
13.	a Illustrate with neat sketches on the folding processes and their civil engineering significance. Or	L3	3	16
	b Explain about the Rock Quality Designation (RQD) with their importance in civil engineering projects.	L3	3	16

14.	a	Explain how the Electrical methods help in knowing about sub-surface feature in Civil Engineering projects.	L3	4	16
		Or			
	b	Discuss in detail about Seismic & Ground Penetrating Radar (GPR) methods.	L3	4	16
15.	a	Explain the various geological factors considered for the construction of dam with examples.	L2	5	16
		Or			
	b	Elaborate the appropriate figures on the types, causes of landslides with sketches.	L2	5	16