

Integ M.Sc. in App Geo Sem-6 Examination

AGL 308

Engg. Geology

April 2022

Time : 2-00 Hours]

[Max. Marks : 50

Instructions : All questions in **Section –I** carry equal marks.
 Attempt any **Three** questions in **Section-I**.
 Questions I in **Section-II** is **COMPULSORY**.

Section-i

Q-I	A- Explain earthquake- mechanism and type.	7
	B- What are the precautionary measures taken in building designing in seismic prone area?	7
Q-II	A- What are foundation treatment techniques?	7
	B- Explain the role of engineering geologist in site investigation and characterization?	7
Q-III	A- Explain the properties required for strength assessment of building stones?	7
	B- Differentiate between a sedimentary and igneous rock on the basis of geological characteristics of building stone.	7
Q-IV	A- Define Dam and types of dams on the basis of structure with example?	7
	B- Explain Reservoir induced seismicity.	7
Q-V	A- Define reservoirs and geological consideration for site selection.	7
	B- Difference between magnitude and intensity of earthquake.	7
Q-VI	A- Explain the concept of Rock Quality Designation Index (RQD).	7
	B- Difference between the type of landslides on the basis of failure.	7
Q-VII	A- Explain the types of flows on the basis of material with diagram.	7
	B- Describe the causes of landslides.	7
Q-VIII	A- Explain the favorable sites for tunnel excavation in the folded terrain.	7
	B- Explain the geological conditions necessary in site selection for engineering design.	7

C.P.T.O)

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Section II

QIX	MCQs- 1. Abutment is- (a) Upstream side of a dam, (b) Downstream side of a dam (c) The sides of the valley on which the dam structure rests (d) Openings for discharge. 2. Which theory is acclaimed as a satisfactory explanation about the cause of earthquakes? a) Elastic Rebound theory b) Clastic theory c) Tremors theory d) Seismology theory 3. Selection of excavation method depends on: a) Type of rocks b) Nature of rocks and ground c) Texture of rocks and ground d) Weather conditions of the place 4. The phase during which the stored elastic energy is released is- a) Preparatory phase b) Rupture phase c) Post failure phase d) Tertiary phase	2*4=8
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