1204E016

Candidate's Seat No:_____

M.Sc. Sem-4 Examination

507

Geology

Time: 2-00 Hours] April 2022

[Max. Marks: 50

Attempt any three questions from section –I

Q - 1		Describe hydrological and runoff cycle.	[14
Q - 2	(i) (ii)	Quality of ground water. Geological methods of ground water exploration.	[07]
Q - 3		Discuss water level fluctuations with reference to causative factors and their measurements.	[14]
Q - 4	(i) (ii)	Elementary theory of ground water flow. Radioactive methods of prospecting.	[07]
	(11)	radioactive methods of prospecting.	[07]
Q - 5		Write a detailed note on ground water occurrences in rocks.	[14]
Q - 6	(i)	Consumptive use of surface water.	[07]
	(ii)	Conjuctive use of ground water.	[07]
Q - 7		Write a critical note on preparation of anomaly maps and their interpretation.	[14]
Q - 8	(i)	Hydrostratigraphic units.	[07]
	(ii)	Alidade method of surveying.	[07]
2 0		Section — II	
Q - 9	(*)	Answer any eight of the following short questions.	[08]
	(i)	What is piezometric level?	
	(ii)	Give estimation of total water available underground.	
	(iii) (iv)	Name the hydraulic properties of rocks.	
	(v)	Define radial flow.	
	(vi)	Give one example of sea water encroachment.	
	(vii)	State the methods of artificial recharge. Define over exploitation.	
	(viii)	Give full form of GPCB.	
	(ix)	Define water resources management.	
	(x)	Define CAS.	
	(xi)	State the parameters for geochemical prospecting.	
	(xii)	What are geophysical anomalies?	
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