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0204N18

Candidate's Seat No :_____

M.Sc Semester-4 Examination

507

Geology

Time: 2-30 Hours]

April-2024

[Max. Marks: 70

Instructions: (i) Draw neat diagrams whenever necessary. (ii) Write proper answer number.			
Q-1		Define and distinguish the terms hydrogeology and geohydrology. Add a note on classification of subsurface water. OR	(14)
Q-1	(a)	Hydraulic characteristics of aquifers.	(07)
	(b)	Hydrogeology of wetlands.	(07)
Q-2		Write a note on methods of pumping test. OR	(14)
Q-2	(a)	Direct methods of artificial recharge.	(07)
	(b)	Preventions from sea water encroachment.	(07)
Q-3		Discuss groundwater management resources.	(14)
0.4		<u>OR</u>	
Q-3	(a)	Groundwater in volcanic rocks.	(07)
	(b)	Groundwater legislation.	(07)
Q-4		Discuss Geological and Geochemical prospecting.	(14)
0.4	(-)	OR Contaning to the contaning of the contaning to the contaning to the contaning of the contaning to the con	(O.E.)
Q-4	(a)	Geological mapping using compass.	(07)
	(b)	Principles of theodolite.	(07)
Q-5		Attempt any seven questions out of twelve.	(14)
	(i)	Give one economic importance of groundwater.	
	(ii)	Define watershed with example.	
	(iii)	What are radio isotopes?	
	(iv)	Name the hydrological properties of rocks.	
	(v)	Define hydtostratigraphic unit.	
	(vi)	State the causative factors of water level fluctuations.	
	(vii)	State the porosity range for sandstone.	
	(viii)	State consumptive use of surface water.	
	(ix)	Give full form of CGWB and GWRDC.	
	(x)	Give standard size of a sample. What is plane table survey?	
	(xi) (xii)	What is plane table survey? What is magnetic anomaly?	
	$(\Delta\Pi)$	what is magnetic anomaly:	