0212N902

Candidate's Seat No:_____

B.Sc Sem.-5 Examination

SE 305

Geology

Time: 2-30 Hours] December-2024

[Max. Marks: 70

		(ii) Write proper answer number.	
Q-1	l.	Describe types of permeability and their values in different rock types.	- (1.4)
		OR	(14)
Q-1	` ′	General validity of Darcy's law.	(07)
	(b)	Subsurface classification of groundwater.	(07) (07)
Q-2		White	(07)
Q-2	•	Write an explanatory note on watershed management categories.	(14)
Q-2.	. (a)	Use of remote souri in the second sec	()
	(a) (b)	Use of remote sensing in hydrology.	(07)
	(0)	Evaluation of topographical and geological formations for groundwater studies.	(07)
		studies.	` ,
Q-3.		Write note on use of metamorphic and the state	
		Write note on use of metamorphic rocks as building stones with examples.	(14)
Q-3.	(a)	Foundation design.	
	(b)	Industrial foundations.	(07)
	()	- Translation Touridations.	(07)
Q-4.		Explain dams built on different types of rocks with Indian examples.	
		OR	(14)
Q-4.	(a)	Significance of geology in reservoirs.	
	(b)	Engineering aspects of Sardar Sarovar dam site.	(07)
	()	gardering aspects of Sardar Sarovar dam site.	(07)
Q-5.		Attempt any seven questions out of twelve.	
	(i)	Define specific retention and specific yield.	(14)
	(ii)	Draw a labelled sketch of typical artesian condition.	
	(iii)	Define perched aquifer and give at least one example.	
	(iv)	Name the aquiclude and aquifuge formation of Gujarat.	
	(v)	State at least two uses of watershed management.	
	(vi)	What are aerial photos? Mention its uses.	
	(vii)	State the types of loads exerting on building.	
	(viii)	Name the types of individual foundations.	
	(ix)	Which building stones is widely used in temples of south India and Guierata	
	(x)	which type of dam represented by Bhakra Nangal and Ukai?	
	(xi)	Define barrage and reservoir.	
	(xii)	Define upstream and downstream of a dam with example.	