0404N70

Candidate's Seat No);
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M.Sc Semester-4 Examination

509

Time: 2-30 Hours]

Geology April-2024

[Max. Marks: 70

	Instru	ictions: (i) Draw neat diagrams whenever necessary. (ii) Write proper answer number.	
Q-1		Describe ash fall, ash flow, lahar deposits and lithic, vitric and crystal tuffs.	(14)
Q-1	. (a)	<u>OR</u>	(* 1)
•	(b)		(07)
Q-2.		Write detailed notes on post-depositional and erosional sedimentary structures. OR	(07) (14)
Q-2.	. (a)	Continental desert environment.	(07)
	(b)	Shallow water carbonate deposits.	(07) (07)
Q-3.		Explain sedimentary diagenesis and differentiation. OR	(14)
Q-3.	(a)	Shallow sub-tidal cementation in carbonate diagenesis.	(0.7)
	(b)	Sedimentary cycles, rhythms and cyclothems.	(07)
Q-4.		Write an explanatory note on sedimentary diagenesis of carbonate rocks with	(07) (14)
		change in mineralogy, fabric and chemistry.	()
Q-4.	(a)	Sedimentary diagonasis of much	
ζ	(b)	Sedimentary diagenesis of mudstones. Recording of sedimentary structures grows to the sedimentary str	(07)
	()	Recording of sedimentary structures, preparation of lithologs, rock staining and thin section staining.	(07)
Q-5.		Attempt any seven questions out of twelve.	24 AV
	(i)	Define lava tube and lapilli.	(14)
	(ii)	What are diamictite and roundness?	
	(iii)	Name limestones as per Folks' classification.	
	(iv)	Draw diagrams of various types of cross-stratification.	
	(v)	Define abyssal deposit and current.	
	(vi)	Draw a diagram of delta structure.	
	(vii) (viii)	Define Correlative conformity and stylolite.	
	(* 1111)	Define Low-stand System Tract (LST) and mention in which way sedimentary structures are recorded?	
	(ix)	Give names of two marine paleoenvironments.	
	(x)	Define foreland basin and rift basin.	
		What are flysch and auto geosyncline?	
	(xii)	Mention effects of subsidence on sedimentation.	