SH-III/Geology/302C-6(T)/19

B.Sc. Semester III (Honours) Examination, 2018-19 GEOLOGY

Course Title : Sedimentology

Time: 1 Hour 15 Minutes

Course ID : 32012

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1.	Answer any five questions of the following:	1×5=5
	(a) What is ripple index?	
	(b) What is 'geopetal fabric'?	
	(c) Define diagenesis.	
	(d) What is arkose?	
	(e) What do you mean by supercritical flow?	
	(f) What is CCD?	
	(g) What is meant by 'textural inversion'?	
	(h) What is a reverse graded bed?	
2.	Answer any two questions of the following:	5×2=10
	(a) Distinguish between the followings:(i) Conglements and brassia	2·5×2=5
	(i) Conglomerate and breccia(ii) Laminar flow and turbulent flow	
	(b) Briefly discuss about textural maturity and mineralogical maturity of sandstone.	
	(c) How does the subaqueous bedform change with flow velocity and sediment grain with diagram.	n size? State
	(d) Justify your answer:	2·5×2=5
	(i) Reduction in grain-size is recorded in downstream direction.	
	(ii) Dry cold climatic condition is indicated by the presence of unaltered fel arkose.	dspar in an
3.	Answer any one of the following questions:	10×1=10
	(a) Briefly describe the different stages of diagenesis of sandstone.	10
	(b) Furnish the Dunham's classification of limestone. What is dolomitization?	8+2=10

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Full Marks: 25

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