

2018

CBCS

3rd Semester

GEOLOGY

PAPER—C6P

(Honours)

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Sedimentary Petrology Lab

Answer all questions

1. Describe the petrography of the given thin section of sedimentary rock. Draw sketches to illustrate the textures/structures of the rock under microscope. Identify the rock with proper reasons. 9
2. Sediment samples were collected from two localities, A and B. These samples were subjected to sieve analysis and data obtained for these samples are as follows :

Locality A

Sieve size (ϕ -scale)	Sample 1		Sample 2		Sample 3	
	wt %	Retained	wt %	Retained	wt %	Retained
1.0-1.5		8		8		6
1.5-2.0		10		9		7
2.0-2.5		14		13		12
2.5-3.0		35		32		30
3.0-3.5		15		18		22
3.5-4.0		13		14		16
4.0-4.5		5		6		7

Locality B

Sieve size (ϕ -scale)	Sample I		Sample II		Sample III	
	wt %	Retained	wt %	Retained	wt %	Retained
0.0-1.0		3		3		4
1.0-1.5		5		6		8
1.5-2.0		7		9		11
2.0-2.5		16		20		25
2.5-3.0		38		35		30
3.0-3.5		15		13		11
3.5-4.0		8		7		6
4.0-4.5		6		5		4
> 4.5		2		2		1

Represent the data pictorially in the form of Histograms and Frequency Distribution curve and interpret a possible energy condition of deposition for these two localities.

3. Laboratory Note Book
4. Viva-Voce

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