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SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2015

				(UG-CC	US	SS)		
				Core Course-	_	Geology		
		GL	6B 17—SEDIM	ENTARY AND	M	ETAMORPHIC PETROLOGY		
Time .	Thre	e Hour				Maximum: 30 Weightag		
I.			'ype Questions. Ar	nswer all twelve	que	estions:		
1.						sed mainly on angular fragments :		
	1		Conglomerate.	(b)		Breccia.		
			Agglomerate.	(d)		Sandstone.		
	0			(4)				
	2		rain size of clay:	(b))	> 1/256 mm.		
			< 1/256 mm.	(d)		1/126 – 1/256 mm.		
			< 1/356 mm.		,	1/120 – 1/200 mm.		
	3		grade metamorph		1	Dhallito		
			Schist.			Phyllite.		
		(c)	Slate.	(d))	Khondalite.		
	4	A low	grade metamorph					
		(a)	Eclogite.	(b)		Amphibolite.		
			Zeolite.	(d)		Granulite.		
	5 An accumulation of valuable minerals by gravity separation during the sedimentary pro 6 A cryptocrystalline sedimentary rock composed of silicon dioxide.							
	7	A metamorphic rock formed from carbonate rock.						
	8	A process of partial melting is known as:						
	9	Regolith is the loose unconsolidated material resting on the bed rocks (T/F).						
	10	Arkose is a detrital sedimentary rock, containing at least 75 % of rock fragments (T/F).						
	11	Mylor	ite a very distinct	ive lineated rock	for	rmed as a result of Dynamic metamorphism (T/F		
	12	Evapo	rates are mineral	s result from the	di	rying up of enclosed lakes, playas and seas (T/F		
						$(12 \times \frac{1}{4} = 3 \text{ weightag})$		

II.	Short Answer	Type	Questions.	Answer	all	nine	questions	:
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13 Terra rossa.

14 Contact metamorphic aureole.

15 Skarn.

16 Guano.

17 Oolitic texture.

18 Granoblastic texture.

19 Ripple marks.

20 Anatexis.

21 Hornfels.

 $(9 \times 1 = 9 \text{ weigh})$

III. Short Essay or Paragraph Questions. Answer any five questions:

22 Ferruginous deposits.

23 Metamorphic zones.

24 Types of conglomerate.

25 Retrograde metamorphism.

26 Sandstone.

27 Charnockite.

28 Cross bedding.

 $(5 \times 2 = 10 \text{ weig})$

IV. Essay Questions. Answer any two questions:

- 29 Write an essay on textures of sedimentary rocks with neat sketches.
- 30 Write an essay on metamorphic textures and give examples.
- 31 Write an essay on residual deposits and comment on their genesis.

 $(2 \times 4 = 8 \text{ weig})$