B.Sc. (Part-III) (Semester-VI) Examination GEOLOGY

Time: T	hree	Hours] [Maximum Marks : 80	0
Note :	(1)	All questions are compulsory.	
	(2)	Draw neat and well labelled diagrams wherever neessary.	
1. (A)	Fill	in the blanks :-	
	(i)	An assembly of vertical photos of an area, cut & pasted together is known as	
	(ii)	If the amount of dip of fault plane is less than 45°, the fault is called as fault	t.
	(iii)	Channel sampling method is best suited for deposits.	
	(iv)	The movement & distribution of elements in the earth crust is referred as	- 2
(B)	Cho	ose correct alternatives :-	
	(i)	In gravity fault, the hanging wall moves-	
		(a) Upwards	
		(b) Downwards	
		(c) Obliqely	
	(ii)	When prismatic or columnar minerals orient themselves parallel to one another the texture is called as-	r,
		(a) Lineation	
		(b) Foliation	
		(c) Crenulation.	
	(iii)	The magnetic method is suitable for-	
		(a) Iron deposits	
		(b) Copper deposits	
		(c) Coal deposits.	
	(iv)	The oblique photographs in which the horizon is not seen are known as-	
		(a) High oblique	
		(b) Low oblique	
		(c) Tilted photograph.	2
(C)	Ans	wer in one or two sentences :-	
	(i)	What is thrust fault?	
	(ii)	What is geobotanical prospecting?	
	(iii)	Write down the principle of gravity method.	
	(iv)	What is elastic strain?	4

2.	Define stress and strain. Describe in detail the deformation of rocks & various teleformation.	types of
	OR	
	Describe in detail determination of stress by deformed conglomerate method.	12
	OR	
3.	Explain the following:-	
	(a) Throw & Heave.	4
	(b) Dip slip fault & strike slip fault.	4
	(e) Kinds of foliation.	4
	OR	
	(p) Hanging wall & foot wall.	4
	(q) Horst & Graben.	4
	(r) Origin of lineation.	4
4.	Describe in detail the construction & working of pocket & mirror stereoscopes.	12
	OR	
	What is photogeology? Describe in detail aerial photographs and its types.	12
5.	Discuss the following:-	
	(a) Tone & texture.	4
	(b) Guidelines for geomorphic interpretation.	4
	(c) Applications of remote sensing.	4
	OR	
	(p) Vertical exaggeration.	4
	(q) Lithological guidelines	4
	(r) Applications of photogeology.	4
6.	Describe the following:-	
	(a) Structural controls of ore localization.	4
	(b) Coning & quartering.	4
	(c) Calculation of ore reserves.	4
	OR	
	(p) Sampling & its types.	4
	(q) Stratigraphic controls of ore localization.	4
7.	(r) Calculation of grades of ore.	4
1.	Give an account of the following:- (a) Magnetic method.	.1
	(b) Self potential method.	4
	(c) Geochemical cycle.	4
	OR	4
	(p) Seismic method.	4
	(q) Resistivity method.	4
	(r) Geobotanical prospecting,	4
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