Total Pages-5 UG/III/GEOL/H/VI/18(New)

2018

GEOLOGY

[Honours]

PAPER -VI

Full Marks: 90

Time: 4 hours

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their

own words as far as practicable

Illustrate the answers wherever necessary

[NEW SYLLABUS]

GROUP - A

(Stratigraphy)

1. Answer any five of the following:

5 x 5

(a) What is "Index fossil"? Describe its importance?

(Turn Over)

(b)	What is intertrappean?
(c)	(i) Define the term 'facies'.
	(ii) Explain the terms, 'aggredation', 'progradation' and 'retrogradation'. 1 + 4
(d)	Write a short note on Banded Gneissic complex?
(e)	(i) What is bio-stratigraphic unit?
Ŋ	 (ii) What is acme biozone? Explain why this biozone do not provide a reliable means of time stratigraphic correlation. 1+4 Briefly discuss the principles of radiometric dating of geological samples. Name one mineral each, that is used for Rb-sr and
	U-Pb dating. $4+1$
(g)	Briefly describe the Jurassic stratigraphy of Kutch.
(h)	Write a short note on Closepet Granite?

2.	Answer any two of the following: 10×2					
	(a) Give an account of Cuddapah Super Group of rocks with reference to its mineral wealth? 10					
	(b)	(i)	Write about the Talchir formatio Gondwana.	n of		
	(ii) Write about the evidences of mar influence in Barren Measure formati of Gondwana.					
	(c)	<i>(i)</i>	Write a short note on Jayantia Grou Assam.	ıp in		
		(ii)	Write down the sedimentation history Assam basin.	ry of 5 + 5		
	(d) Describe the stratigraphic succession of singhbhum craton?					
			GROUP - B			
			(Economics Geology)			
3.	Ans	wer	any five of the following:	5 × 5		
T E	(a) What is Skarn? Describe associated					
100		depo	osits?	5		

5

	ple.		
		(ii) Give examples of sedimentation depo and evaporation deposits.	sits 3 + 2
	(c)	Wrtite a short note on Porphyry cop deposit.	per 5
	(d)	(i) What is Mn-nodule?	
		(ii) Write about the genesis of see deposit.	dex 1 + 4
	(e)	Describe stratiform and strata bound depo	sit. 5
	()	Narrate the unconformity associated urani deposits.	um 5
	(g)	Describe plant as indicators.	. 5
	(h)	Write about channel sampling method vein type deposit.	for 5
4.	Ans	swer any two of the following:	10 × 2
	(a)	(i) Describe the petroleum occurrence Bombay High.	at
UG/I	III/GEC	OL/H/VI/18(New) (Co	ntinued)

8 18	(ii) Write a note on primary migration			
	petroleum.	5 + 5		
(b)	Give the distribution and mode of occurrence			
	of Gondwana coal in India.	10		
(c)	Write a brief note on Khetri Copper belt of			
	Rajasthan?	10		
(d)	Write short note on:	5 × 2		
	(i) Placer deposit	8		
	(ii) Kimberlites			
	(iii) Chromite deposit	ei .		
	(iv) Strategic minerals			
	(v) Supergene eurichoment.			
		10		