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<b>23</b> .	P434	(Pages: 2)	Name :
FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2025 (CBCSS-PG)			
	(Regular/S	Supplementary/Improve	ement)
CC19P GEL4 E04A - EXPLORATION GEOLOGY			
		(Applied Geology)	
	(20)	19 Admission onwards)	
Tin	e: 3 Hours		Maximum: 30 Weightage
		Part-A	
	Answer any four ques	stions. Each question ca	rries 2 weightage.
1.	What are the differences between percus	ssion and rotary drilling	
2.	Define primary and secondary dispersion	n patterns.	
3.	Explain some common geochemical asso	ociation of elements.	
4.	Describe geobotanical indicators.		
5.	Explain Equi potential line method.		
6.	Describe terrain correction in gravity sur	rveying.	
7.	Describe Neutron gamma ray log.		
			$(4 \times 2 = 8 \text{ Weightage})$
		Part-B	
	Answer any <i>four</i> ques	stions. Each question ca	rries 3 weightage.
8.	Describe the ore reserve cateogory with	the help of McKelvy bo	X.
9.	Discuss the distribution of elements in ea	arth materials based on	geochemical cycle.
10.	Discuss Seismic and resistivity methods.		
11.	Summarize Schlumberger methods.		
12.	Describe the interpretation of magnetic a	anomalies.	
13.	Describe the velocity determination usin	ng Normal Moveout.	
14.	Instantiate Alpha Beta and Gamma Rays	S.	

Part-C

 $(4 \times 3 = 12 \text{ Weightage})$ 

Answer any *two* questions. Each question carries 5 weightage.

15. What is the scope of detailed mineral exploration?

- 16. Describe the primary dispersion pattern of deep seated origin.
- 17. Discuss the application of seismic methods in exploration.
- 18. Explain principles of GM counter and Scintilometers.

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

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