CSM – 35 / 15 Geology Paper – II

Time: 3 hours

Full Marks: 300

The figures in the right-hand margin indicate marks.

Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and **three** of the remaining questions, selecting at least **one** from each Section.

Section - A

- Answer any three of the following in about 200 words each :
 - (a) Write the chemical and optical properties ofMica group of minerals.
 - (b) Discuss the Deccan Volcanism in relation to magma generation, composition and mode of occurrence.

DA - 58/2

(Turn over)

	(c)	Discuss the various sedimentary	structures	
	(-)	and their significance.	20	
	(d)	Write on mineralogical phase diag	2 320	
:: • • ⊕	COI	cuss the concept of metamorphism nditions and protoliths of tamorphism with Indian examples.	granulite	
3.	Wr	ite the explanatory notes on the fol	lowing:	
	(a)	Ultrabasic rocks	30	
ži,	(b)	Silicate structures	30	
4.		scuss the various sedimentary en h examples of Indian localities.	vironments 60	
		Section - B	12. ¹⁶	
5.	An	Answer any three of the following each in about		
		0 words:	20×3 = 60	
1;	(a)	Controls of ore localization		
	(b) Geology of Chromite deposits of Sukinda(c) Environmental impacts of open-cast mining			
	(d) Gravity method of exploration deposits	of metallic	
DA - 58/2		58/2 (2)	Contd.	

2.

3.

4.

5.

- Explain the geological setting, occurrence and distribution of Petroleum deposits of India. 60
- 7. Write notes on the following in brief:
 - (a) Explain the process of formation of supergene sulphide enrichment deposits.

30

- (b) Describe the structure and composition of Earth. Add a note on the geochemical classification of elements. 30
- 8. Answer any two of the following: $30 \times 2 = 60$
 - (a) Marine pollution.
 - (b) Ore beneficiation of Sulphides.
 - (c) National mineral policy of India.

