H-56073

Seat No. _____

M. Sc. (Part-II) Examination

April / May – 2003

Geology

	3.000	
Tim	ne: 3 Hours] [Total Marks: 1	00
Ins	tructions: (1) Draw neat diagrams wherever necessary. (2) Your answer should carry the same number per question paper.	as
.1.	Describe the ultrabasic rocks with reference to their chemistry, mineralogy,	20
	petrogenesis and economic importance.	
	<u>OR</u>	
1.	Discuss:- (1) Primary origin of spilite – keratophyre association, (2) Migmatisation.	20
2.	Discuss the problem of granitisation in light of recent developments.	20
	Enumerate the criteria to distinguish between granites of different origin.	
	<u>OR</u>	
2.	Write notes on:- (1) Origin of basaltic magma, (2) Assimilation of shale and	20
	sandstone in granitic and basaltic magma, (3) Petrogenesis of carbonatites.	
3.	Discuss the problem of granite tectonics in brief.	20
	<u>OR</u>	
3.	Write notes on:- (1) Classification of lamprophyres, (2) Anorthosites.	20
4.	Describe:- (1) Post-depositional horizontal brittle deformational	20
	sedimentary structures, (2) Sedimentary differentiation, (3) Continental terrestrial environments.	
	<u>OR</u>	
4.	Review critically :- (1) Folk classification of limestones, (2) Mechanical	20
	analysis of sedimentary rocks, (3) Flute casts and slump structures.	
5.	Write notes on: (1) Phase rule and graphical representation of metamorphic	20
	mineral assemblages, (2) Concretions and solution principles in	
	metamorphic differentiation, (3) Granulite and blue schist facies.	
	<u>OR</u>	
5.	Discuss :- (1) Facies of contact metamorphism, (2) Retrograde	20
	metamorphism of regionally metamorphosed rocks, (3) Metasomatism in	
	dynamothermally metamorphosed rocks.	
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