	Name :
	Reg. No:
THIRD SEMESTER M.Sc. (CU	CSS) DEGREE EXAMINATION, DECEMBER 2015
Applied	Geology (2014 Admission)
GEL 3C 10 - IGNE	OUS & METAMORPHIC PETROLOGY
Time: Three Hours	Maximum: 36 Weightage
	agrams wherever necessary. Answer all questions.
Answer all the qu	Part A estions in two or three sentences each:
1. Reaction series	2. Igneous cumulates
3. Ophiolites	4. Mingling of magmas
5. Eutectic Point	6. Peacock's Alkali – lime index
7. Mode	8. Pillow lava
9. Pegmatite	10. Katazone
11. Augen Gneiss	12. Polymetamorphism
13. Eclogite	14. Mineral paragenesis
	(14 x 1 = 14 Weightage)
Answer any seven qu	Part B uestions, each not exceeding a paragraph:
15. Use of trace elements in the	
16. Variation diagrams	
17. Significance of Albite-Anorth	ite-Orthoclase System.
18. Albite – Anorthite system	
19. Source material for basaltic	magmas
20. Kimberlites	
21. Genetic significance of metar	morphic texture
22. Retrograde metamorphism	
23. Origin of charnockites	
24. Metasomatism	
	(7 x 2 = 14 Weightage)
Write	Part C essays on the following:
25. Give an account of the origin26. Describe the Forsterite-Silica	(OR)
27. Compare the concepts of me examples.	tamorphic grade and metamorphic facies with suitable
28. Give an account of ACF AKE	(OR) and AFM diagrams and their uses.
account of nor, fill	(2 x 4 = 8 Weightage)