20P	2353	(Pages: 1)	Name Reg. No
	THIRD SEMESTER M.Sc	. DEGREE EXAMINAT	_
		(CBCSS-PG)	
	_	r/Supplementary/Improve	
	CC19P GEL3 C09 - IGN	NEOUS AND METAMO (Applied Geology)	RPHIC PETROLOGY
	(2	2019 Admission onwards)	
Time:	Three Hours	,	Maximum: 30 Weightage
I. Shoi	t answer type questions. Ans	swer any <i>four</i> questions.	
1.	Bowen's Discontinuous rea	ction series and its signific	cance
2.	Liquidus and solidus		
3.	Genetic significance of porp	phyritic texture	
4.	Pegmatite		
5.	ACF diagram		
6.	Polymetamorphism		
7.	Metamorphic differentiation	n	
			$(4 \times 2 = 8 \text{ Weightage})$
II. Sho	ort essay questions. Answer a	ny <i>four</i> questions.	
8.	Quaternary system: Di-An-	Ab-Fo	
9.	Streckeisen classification of	f ultramafic rocks.	
10	. Petrogenesis of granites.		
	. Metamorphic facies.		
	. Role of fluids in metamorpl	hism.	
	. Plate tectonics and metamo		
	. Migmatites.	ipino processos.	
17	· magnitudes.		$(4 \times 3 = 12 \text{ Weightage})$
шт	ng essay. Answer any <i>two</i> di	nestions	(4 × 5 – 12 Weightage)

III. Long essay. Answer any *two* questions.

- 15. Crystallisation and melting sequence in Albite-anorthite-orthoclase system
- 16. Significance of isotopic studies in the petrogenesis of igneous rocks.
- 17. Petrogenetic significance of metamorphic textures.
- 18. Regional metamorphism of carbonate rocks.

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