AND	Reg. No:
	E (SUPPLEMENTARY/IMPROVEMENT) ION, MAY 2016
(UG	- CCSS)
Core Cou	irse- Geology
GL4B07-	MINERALOGY
(2009-2012 Admissions)	
Time : Three Hours	Maximum : 30 Weightage
I. Objective type questions : Answe	er all questions
Choose the most appropriate	answer.
1. Hardness of Apatite.	
(a) 3 from the real appropriate water and	200 (b) 6 4 200 100 100 100 100 100 100 100 100 100
(c) 5	(d) 8
2. Optical accessory used for order of	f interference colour
(a) Quartz wedge	(b) Mica Plate
(c) Gypsum Plate	(d) Bertand lens
3. Which among the following is a ur	niaxial mineral.
(a) Biotite	(b) Muscovite
(c) Calcite	(d) Orthoclase
4. Which among the following is a ga	
(a) Enstatite (b) Aegirine	(c) Almandine (d) Andesine
Name the following.	
5. Chemical composition of Orthocla	se. and was almost ediment.
6. A transparent variety of calcite.	30. Describe atomic setterwise regime
7. Name a pyroelectric mineral.	
8. A mineral with maximum hardner	ss.
Fill in the blanks:	
9is the iron end member o	f olivine solid solution.
10is a pyroxene indicative	of high pressure.
11. If a mineral has same property in all directions is called	
12is the angle between to	wo optic axes.

(12X 1/4 = 3 weightage)

II. Short answer questions. Answer all questions.

- 13. What is cleavage?
- 14. What is sign of elongation?
- 15. Diagnostic optical properties of olivine.
- 16. Ionic bonding.
- 17. Exsolution.
- 18. Optic axial angle.
- 19. Twinkling in minerals.
- 20. Industrial use of quartz.
- 21. Piezoelectric minerals.

(9X1= 9 weightage)

III. Short essay questions. Answer any five questions.

- 22. Optical indicatrix.
- 23. Biaxial minerals.
- 24. Hardness scale.
- 25. Polymorphism.
- 26. Aluminium silicates.
- 27. Optic sign of minerals.
- 28. Feldspathoids.

(5X2= 10 weightage)

IV. Essay questions. Answer any two questions

- 29. Describe atomic structure, chemistry and physical properties of amphiboles.
- 30. Describe atomic structure, physical properties of clay minerals.
- 31. Give an account of the parts and functions of polarizing microscope.

(2X4= 8 weightage)