

15P246

(Pages: 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2016

(CUCSS - PG)

(Applied Geology)

CC 15P GEL2 C05 - CRYSTALLOGRAPHY & MINERALOGY

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

I Short Answer Type Questions. Answer *all* questions

1. Identi-points
2. Plane lattice
3. Rotoinversion
4. Polarised light
5. Pleochroism
6. Quartz wedge
7. Order of interference
8. Symmetrical extinction
9. Unit Cell
10. Body centered lattice
11. Interference figure
12. XRD
13. Relief
14. Nesosilicates

(14 x 1= 14 weightage)

II Short Essay Type questions. Answer any *seven* questions

15. Polymorphism
16. Biaxial minerals
17. Symmetry operations
18. Translation periodicity of crystals
19. Uniaxial interference figure
20. Spherical projection
21. Orthoclase feldspar
22. Determination of vibration direction
23. Napier's rule
24. Types of dispersion

(7 x 2 = 14 weightage)

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

25. Explain the characters of Inosilicates. Give an account of Pyroxene group of minerals

Or

26. Explain the characters of Tectosilicates. Give an account of Feldspar group of minerals.

27. Define Bragg's law. Explain how powder diffraction method is useful in the study of minerals.

Or

28. What is Stereographic projection? Describe principle of stereographic projection by drawing the stereogram of normal class of Isometric system.

(2 x 4 = 8 weightage)
