

15P348

(Pages:2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(CUCSS - PG)

(Applied Geology)

CC15P GEL3 C10 - Igneous and Metamorphic Petrology

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

I. Answer **all** questions in **two** or **three** sentence each:

1. Granularity.
2. Eutectic crystallisation.
3. Norm.
4. Liquid immiscibility.
5. Anorthosite.
6. Differentiation index.
7. Carbonatites.
8. Migmatites.
9. Significance of granulites.
10. Gneissosity.
11. Marble.
12. Retrograde metamorphism.
13. Metasomatism.
14. Index mineral.

(14 x 1 = 14 weightage)

II. Answer **any seven** question, each not exceeding **two** pages:

15. Fractional crystallisation.
16. Intergrowth textures.
17. Ophiolites.
18. Significance of isotope studies in petrogenesis.
19. Petrogenesis of granites.
20. Concept of metamorphic facies.

21. Eclogites.
22. Paired metamorphic belts.
23. ACF and AKF diagrams.
24. Solid-solid reactions in metamorphism.

(7 x 2 = 14 weightage)

III. Write *any two* of essays from the following:

25. Describe the Streckeisen's IUGS classification.

Or

26. Explain the diopside-albite-anorthite system. Add a note on its petrogenetic Significance.
27. Describe the metamorphic reactions in carbonate rocks.

Or

28. Describe the petrogenesis of charnockites.

(2 x 4 = 8 weightage)
