

19U522S

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Name:

Reg. No:

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CUCBCSS-UG)

CC15U GL5 B11 – IGNEOUS PETROLOGY

(Geology- Core Course)

(2015 to 2018 Admissions - Supplementary/ Improvement)

Time: Three Hours

Maximum: 80 Marks

Draw neat diagrams wherever necessary.

Part- A

Answer *all* questions. Each question carries 1 mark.

1. Igneous rocks composed of less than 45% silica.
2. Curve in phase diagram, below which only solid can exist.
3. _____ is an example of monomineralic rock.
4. A mushroom shaped intrusive igneous body.
5. An igneous rock in which the Al_2O_3 content is greater than the content of Na_2O+K_2O+CaO .
6. A very coarse grained igneous plutonic rock with granitic composition.
7. The volcanic equivalent of Syenite is _____
8. Number of degrees of freedom at the eutectic point in Diopside-Anorthite system.
9. The rocks which exhibit mixed characteristics of volcanic and plutonic rocks are _____
10. Texture seen in Gabbro.

(10 × 1 = 10 Marks)

Part- B

Answer any *ten* question. Each question carries 2 marks.

11. Eutectic Crystallization.
12. Granodiorite.
13. Pyroclastic Deposits.
14. Pillow structure.
15. Incongruent melting.
16. Colour Index.
17. Oversaturated rock.
18. Primary Magma.

19. Sheet Joints.
20. Lever Rule.
21. Consanguinity.
22. Plutonic rocks.

(10 × 2 = 20 Marks)

Part- C

Answer any *five* questions. Each question carries 6 marks.

23. Petrographic Provinces.
24. Alkaline rocks.
25. Mode and CIPW norm.
26. Bowen's Reaction Series.
27. Diopside- Albite- Anorthite system.
28. Igneous Intrusive forms.
29. Lamprophyres.
30. Magmatic Differentiation.

(5 × 6 = 30 Marks)

Part- D

Answer any *two* questions. Each question carries 10 marks.

31. Describe the various textures in igneous rocks.
32. Describe the texture, mineralogy, classification and modes of occurrence of Granites.
33. Write an essay on IUGS classification of igneous rocks.
34. Give an account of the crystallization and melting in albite-anorthite system. Add a note on zoning in plagioclase.

(2 × 10 = 20 Marks)
