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Name: Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018 (CUCBCSS-UG)

CC15U GL5 B13 - METAMORPHIC GEOLOGY

(Geology - Core Course)

(2015-Admission onwards)

Time: Three Hours

Maximum: 80 Marks

Part - A

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

- 1. The typical orthopyroxene in charnockite.
- 2. Define contact metamorphism.
- 3. Among the following minerals, which one is typically metamorphic? calcite, cordierite, biotite, plagioclase.
- 4. Among the following which one is a product of the highest temperature of metamorphism? Schist, Granulite, Phyllite, Slate.
- 5. The type of metamorphism by which tektites are formed.
- 6. Define porphyroblasts.
- 7. Pumpellyite is a product of ------ grade metamorphism.
- 8. What is deviatoric stress?
- 9. The most common iron-rich garnet seen in metamorphic rocks.
- 10. What is UHT metamorphism?

(10 x 1 = 10 Marks)

Part – B

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

- 11. Xenoblastic texture.
- 12. Epizone.
- 13. Retrograde metamorphism.
- 14. Eclogite.
- 15. Blueschist facies.
- 16. Factors of metamorphism.
- 17. Augen gneiss.
- 18. Migmatite.
- 19. Slate.
- 20. Myrmekite.

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21. Metasomatism.

22. Polymetamorphism.

(10 x 2 = 20 Marks)

Part – C

Answer any *five* questions. Each question carries 5 marks.

- 23. Metamorphism of argillaceous rocks.
- 24. Metamorphism in divergent plate margins.
- 25. Limits of metamorphism.
- 26. Regional metamorphism.
- 27. Petrography and origin of amphibolites.
- 28. Metamorphic differentiation.
- 29. Barrowian sequence.
- 30. Metamorphic foliations.

(5 x 6 = 30 Marks)

Part – D

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

- 31. Describe the important textures in metamorphic rocks and their significance.
- 32. Describe the effects of metamorphism on basic igneous rocks.
- 33. What is meant by grade of metamorphism? Describe the various grades of metamorphism.
- 34. Discuss various types of metamorphism based on principal agents.

(2 x 10 = 20 Marks)
