

19U524

(Pages: 2)

Name: .....

Reg.No: .....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

(CBCSS - UG)

**CC19U GEO5 B12 - METAMORPHIC PETROLOGY**

(Geology & Environmental Science - Core Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Limits of pressure during metamorphism.
2. Thermal metamorphism.
3. Criteria for describing foliations.
4. High grade metamorphism.
5. Chlorite zone.
6. Buchan facies series.
7. Diaphthoresis.
8. Metasomatism.
9. Geothermometry.
10. Migmatization.
11. Slate.
12. Schistosity.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Role of temperature in metamorphism.
14. Porphyroblastic texture.
15. Mineral paragenesis.
16. Describe blueschist and eclogite facies.
17. Explain the tectonic setting in which paired metamorphic belts form.
18. Give an account of mineral reactions during medium pressure metamorphism of pelitic rocks.
19. Explain the effects of metamorphism on basic igneous rocks.

**(Ceiling: 30 Marks)**

**Part C** (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Describe the different classifications of metamorphism.
21. Explain the effects of metamorphism on calcareous rocks.

**(1 × 10 = 10 Marks)**

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