2023/TDC(CBCS)/ODD/SEM/ GELDSC/GE-301T/128

TDC (CBCS) Odd Semester Exam., 2023

GEOLOGY

(3rd Semester)

Course No. : GELDSC/GE-301T

(Petrology)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks
for the questions

SECTION-A

Answer fifteen questions, selecting three from each
Unit: 1×15=15

Write one Light Tinum

- 1. Define sheet structure. The board and strill
- 2. Write the essential minerals of granite.
- 3. Define vesicular structure.
- 4. What is fractional crystallization?

(Turn Over)

UNIT-II

5. Define extrusive igneous rock.

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- 6. What is essential mineral in igneous rock?
- 7. Write two primary minerals of felsic rock.
- 8. Define plutonic rock.

UNIT-III

- 9. Write briefly on non-clastic sedimentary rock.
- 10. Write briefly one process of formation of sedimentary rock.
- 11. Write briefly on the size of rudaceous rock.
- 12. Write one essential mineral of carbonate rock.

UNIT-IV

- 13. Write one factor of metamorphism.
- 14. Write one product of metamorphism.
- 15. Write one principal process that takes place on metamorphism.
- 16. Write the characteristic minerals of high grade metamorphism.

(Continued)

UNIT-V

- 17. Write the composition of marble.
- 18. Write the name of rock which shows banding.
- 19. Write the structure of schist.
- 20. Which sedimentary rock is metamorphosed to quartzite?

SECTION-B

Answer five questions, selecting one from each
Unit: 2×5=10

UNIT-I

- 21. Write a short note on discontinuous reaction series.
- 22. Write the types of magma.

UNIT-II

- 23. Write a short note on granite.
- 24. Write a short note on syenite.

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(Turn Over)

UNIT-III

- 25. Write a short note on ripple mark.
- 26. Write a short note on cement bedding.

UNIT-IV

- 27. Write a short note on grades of metamorphism.
- 28. Write a short note on factors of metamorphism.

UNIT-V

- 29. Write a short note on gneiss.
- 30. Write a short note on marble.

SECTION-C

Answer five questions, selecting one from each
Unit: 5×5=2

UNIT-I

- 31. Define magma. Write a note on origin of magma.
- 32. Write a note on the Bowen's reaction series.

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UNIT-II

- 33. Describe the mineralogical classification of igneous rocks.
- **34.** Give a detailed petrographic description of gabbro.

UNIT-III

- 35. Write an explanatory note on texture of sedimentary rocks.
- 36. Write a detailed note on shale.

UNIT-IV

- Write a detailed note on the types of metamorphism.
- **38.** Write briefly on the classification of metamorphic rocks.

UNIT-V

- **39.** Describe the petrographic varieties of schists.
- **40.** Give a detailed petrographic description of slate.

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