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FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CUCBCSS)

Geology

GLY 1B 01—EARTH SYSTEM AND PROCESS

Draw neat sketches wherever necessary.

Maximum: 80 Marks

Part A (Objective Type Questions)

Answer all questions.

Each question carries 1 mark.

- 1. An example for a dormant volcano.
- 2. A natural hazard which is highly disastrous in coastal regions.
- 3. Period of Halley's comet.
- 4. Half life of C-14.

Time: Three Hours

- 5. Who proposed Nebular Hypothesis
- 6. Composition of continental crust.
- 7. Planet known as sister of earth.
- 8. The instrument which is used for measuring earthquake intensity.
- 9. Process of weathering of rock layers like onion peel.
- 10. Branch of Geology deals with the study of minerals.

 $(10 \times 1 = 10 \text{ marks})$

Part B (Short Answer Type Questions)

Answer any ten questions Each question carries 2 marks.

11. Asteroids.

12. Active volcano.

13. Epicentre.

14. Core.

15. Fold mountains.

16. Leaching.

17. Magma.

18. Slide

19. Fissure eruption.

20. Lahars

21. Icesheets.

22. Asthenosphere.

 $(10 \times 2 = 20 \text{ marks})$

Part C (Paragraph Type Questions)

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CALLICUS
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ONNINERSITY Answer any five questions. Each question carries 6 marks.

- 23. Isostasy.
- Origin of earthquakes.
- Ozone layer depletion.
- Age determination of earth.
- 27. Soil profile.
- 28. The Tidal Hypothesis.
- 29. Solar system.
- 30. Meteorites.

 $(5 \times 6 = 30 \text{ marks})$

Part D (Essay Type Questions)

Answer any two questions. Each question carries 10 marks.

- Describe in detail about causes and effects of landslides.
- Describe about different types of weathering, products of weathering and factors influencing weathering.
- Give a detailed account of the interior of the earth based waves on the study of seismic
- 34. Give a detailed account of volcanoes, their products and different types of volcanic eruption.

 $(2 \times 10 = 20 \text{ marks})$

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FIRST SEMESTER (CBCSS_UG) DEGREE EXAMINATION NOVEMBER 2020

Geology

GEO 1C 01—INTRODUCTION TO REMOTE SENSING AND GIS

(2019 Admissions)

Time: Two Hours Maximum: 60 Marks

Answer all questions.

 $Draw\ neat\ sketches\ wherever\ necessary.$

Section A (Short Questions)

Answer at least eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

- 1. Sidelap and Overlap.
- 2. Fiducial marks.
- 3. Relief displacement.
- 4. Panchromatic films.
- 5. Stereo plotter.
- 6. Active remote sensing
- 7. Atmospheric windows.
- 8. Diffuse reflection.
- 9. Blackbody radiation.
- 10. Map scale.
- 11. Datum.
- 12. Cadastral maps.

 $(8 \times 3 = 24 \text{ marks})$

Turn over

Section B

Answer at least five questions. Each question carries 5 marks. All questions can be attended. Overall Ceiling 25

- 13. Drift, tilt and crab in aerial photographs.
- Types of aerial cameras.
- 15. EMR spectrum and its characteristics.
- 16. Types of EMR scattering.
- 17. Components of GIS.
- 18. GIS softwares.
- 19. Map projections.

Y OF CALICUT $(5 \times 5 = 25 \text{ marks})$

Section C

Answer any one question. The question carries 11 marks.

- 20. Explain image interpretation in aerial photography and remote sensing with special reference to the elements involved.
- and da 21. Describe the functions and data structures in GIS. Add a note on the limitations of GIS.

 $(1 \times 11 = 11 \text{ marks})$

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FIRST SEMESTER (CBCSS_UG) DEGREE EXAMINATION NOVEMBER 2020

Geology

GEO 1B 01—ESSENTIALS OF GEOLOGY

(2019 Admissions)

Time: Two Hours

Maximum: 60 Marks

Answer **all** questions.

Draw neat sketches wherever necessary.

Section A

Answer at least eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

- 1. Palaeontology.
- 2. Jovian planets.
- 3. Asteroids.
- 4. Plate margins.
- 5. Eons and Eras.
- 6. Interfacial angle
- 7. Cubic system.
- 8. Rock cycle.
- 9. Seismograph.
- 10. Mercalli's Scale.
- 11. Pyroclastic materials.
- 12. Marine erosion.

 $(8 \times 3 = 24 \text{ marks})$

Section B

Answer at least **five** questions. Each question carries 5 marks. All questions can be attended. Overall Ceiling 25.

- 13. Layered structure of the Earth.
- 14. Nebular Hypothesis.
- 15. Methods of determination of age of Earth.
- 16. Types of chemical bonding in minerals.
- 17. Causes, effects and prediction of earthquakes.
- 18. Types of mass wasting.
- 19. Global distribution of volcanoes and earthquakes.

 $(5 \times 5 = 25 \text{ marks})$

Section C

Answer any one question.

The question carries 11 marks.

- 20. Give an account of the Geological Time Scale.
- 21. Describe the topography of the ocean floor.

 $(1 \times 11 = 11 \text{ marks})$