

2019

B.Sc.

1st Semester Examination
GEOLOGY (Honours)

Paper - C 1-T

(Earth System Science)

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions of the following :

2×5=10

1. What is pillow lava ?
2. Write the compositional difference between Terrestrial and Jovian planets.
3. What is Island arc ?
4. Define the term 'soil creep'.

[Turn Over]

5. What is unconformity ?
6. What is chemical weathering ? Give examples.
7. What is volcanic dome ?
8. What is the difference between chondrite and achondrite ?

Group - B

Answer any *four* questions of the following :

4×5=20

9. Write a short note on different types of plate boundaries.
10. (a) Write the assumptions of 'Airy and Pratt' Models.
(b) Give an account on Isostatic anomaly. 2+3
11. (a) What is point bar ?
(b) Give a brief account on depositional features of aeolian (wind driven) environment. 1+4
12. (a) What is Seismogram ?
(b) Classify volcano according to their morphology. 1+4

13. (a) Write goldsmiths classification of element.
- (b) What is p-process in nucleosynthesis process of element ? 3+2
14. (a) What is the difference between plutonism and neptunism ? 3+2
- (b) Write the principles of Nicholas steno in stratigraphy. 2+3

Group - C

Answer any *one* question of the following :

1×10=10

15. (a) Write a short note on P-wave and S-wave shadow zones.
- (b) Briefly discuss about the geochemical composition of Earth's crust. 5+5
16. (a) Write the significance of radiometric age dating of rock.
- (b) What is Ekman spiral ?
- (c) Write geological time scale in a table form. 3+2+5
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