

**2023/TDC(CBCS)/ODD/SEM/
EESHCC-101T/388**

TDC (CBCS) Odd Semester Exam., 2023

ECOLOGY AND ENVIRONMENTAL SCIENCE

(Honours)

(1st Semester)

Course No. : EESHCC-101T

(Earth and Earth Science Process)

Full Marks : 50

Pass Marks : 20

Time : 3 hours.

*The figures in the margin indicate full marks
for the questions*

SECTION—A

**Answer ten questions, selecting any two from
each Unit : $2 \times 10 = 20$**

UNIT—I

- 1. Write the physical properties of Mantle.**
- 2. Name the different layers of the atmosphere.**
- 3. How has earth's surface changed over geological time?**

UNIT—II

4. Define earthquake.
5. State the seafloor spread theory.
6. What is isostasy?

UNIT—III

7. What is weathering?
8. What are the factors responsible for soil erosion?
9. Define metamorphism.

UNIT—IV

10. What is geomorphology of a river?
11. Write the composition of atmosphere.
12. What is the interface between the land and sea?

UNIT—V

13. How was the Peninsular Indian mountain system formed?

14. How do glaciers develop?

15. What is the source of perennial river system?

SECTION—B

Answer *five* questions, selecting *one* from
each Unit : 6×5=30

UNIT—I

16. Give an account on the formation and composition of the earth.
17. What are the changes in the geological time-scale typically based on and what causes these changes?

UNIT—II

18. Discuss the causes and effects of earthquake. 3+3=6
19. Write short notes on the following : 3×2=6
 - (a) Mantle convection
 - (b) Continental drift

UNIT—III

20. Describe elaborately the different types of rock structure.
21. Discuss the physical and biogeochemical processes of weathering.

UNIT—IV

22. Give a detailed account on physical and optical properties of atmosphere.
23. What do you mean by glacier dynamics? Discuss the different types of glaciers. 3+3=6.

UNIT—V

24. Illustrate the formation of Indian mountain system with special reference to Western and Eastern Ghats.
25. Give a detailed account on the formation of the Himalayas.

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