

Roll No.

Total Pages : 3

754104

January 2023

M.Sc. (EVS) 1st SEMESTER

Environmental Geosciences (EVS104B)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Define Geological time scale. (1.5)
- (b) Which metals are present in the core of earth? (1.5)
- (c) Describe briefly global scale of meteorology. (1.5)
- (d) How does Coriolis acceleration effect wind distribution pattern ? (1.5)
- (e) What are constructive plate margins? (1.5)
- (f) Give *three* characteristics of igneous rocks. (1.5)
- (g) Explain Sea carbon sequestration. (1.5)
- (h) Diagrammatically depict radiation balance of earth. (1.5)

754104/45/111/410

36 [P.T.O.]

(i) Name the types of climates as given by Koeppen's classification. (1.5)

(j) Differentiate waves, tides and currents. (1.5)

PART-B

2. (a) Give detailed description of different weathering processes. (10)

(b) Explain the formation of different physical features on the earth due to plate movements. (5)

3. Write short notes on any *three* : (3×5=15)

(a) Ocean Warming.

(b) Sea Acidification.

(c) Sea water properties.

(d) Marine pollution.

4. India experiences diverse weather and climate conditions. Justify this statement with detailed description. (15)

5. (a) Explain the process of cloud formation and its different types. (5)

(b) Define Meteorology. Explain the different parameters of meteorology. (10)

6. (a) What are the different mineral resources being extracted for human benefits? (10)

(b) How are sedimentary rocks classified on the basis of transporting agents ? (5)

7. Write short notes on any *three* : (3×5=15)

(a) Volcanicity.

(b) Inversion.

(c) Radiation laws.

(d) El Nino.
