

[This question paper contains 3 printed pages]

Your Roll No

7211

J

M Sc / I

ENVIRONMENTAL BIOLOGY – Paper I

(Earth Systems)

Time 3 Hours

Maximum Marks 45

*(Write your Roll No on the top immediately
on receipt of this question paper)*

*Attempt any **five** questions*

***All** questions carry equal marks*

[Provide a sketch map of India (Blank)]

- 1 In what ways different rock forming minerals react to weathering processes? How are they related to Bowen's Reaction series? 9
- 2 Demarcate the following geomorphic units on a given map of India and make brief comments on Lithology of these geomorphic units 9
 - (a) Indo-gangetic Plains
 - (b) Himalayan Chain of Mountains

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- 3 Differentiate between the following pairs 9
- (a) Water table and Piezometric surface
 - (b) Biosphere and Lithosphere
- 4 Draw diagrams to illustrate the following 9
- (a) Various shells of the earth's interior
 - (b) Various types of sand dunes
 - (c) Primary and secondary porosity
- 5 What do you understand by the following 9
- (a) Geological time scale
 - (b) Rock cycle
 - (c) Upwelling of oceanic water
- 6 In what way the following tools are useful in understanding the aquifer of an area 9
- (a) Hydrograph
 - (b) Triangular Elemental Plots
 - (c) Resistivity Meter
- 7 Discuss any **one** of the following and describe its role in understanding the environmental degradation of a region 9
- (a) Carbon Cycle
 - (b) Water Cycle
 - (c) Sewage Canals

- 8 Draw sketches to show 9
- (a) Cross section from the land to the ocean bottom
 - (b) Convergent and Divergent plate movement
 - (c) Journey of a river from the Glacier front to Delta front