

[This question paper contains 2 printed pages.]

3887

Your Roll No.

B.Sc. Prog./III

IS

EL-310 (v) – Earth System Science

(Admissions of 2005 & onwards)

Time : 2 hours

Maximum Marks : 38

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

Answer any five questions.

All questions carry equal marks.

1. Describe Big-Bang Theory of the origin of the Universe. Explain the “Red Shift” giving suitable sketches wherever necessary.
2. Write the processes by which early differentiation of the Earth’s layer took place.
3. Explain the phenomenon of El Nino and La Nina giving suitable diagrams.
4. How did the ocean continent geometry affect the surface circulation in the geological past ? Give one example.

P.T.O.

5. Write short notes on :
- (a) Land forms produced by Winds
 - (b) Physical weathering
6. Explain how and why
- (a) Depth of the Ocean floor is related to its age ?
 - (b) Island arcs are formed ?
7. Discuss in detail the principles of "Uniformitarianism" and "catastrophism" giving examples from the geological record.
8. What do you understand by "Sea Floor Spreading" Explain giving suitable sketches.