S.No. : 634 NBSCC1101

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 39950 Roll No. 1 2 3 0 6 7 1 5 9 5

B.Tech / BBA Examination 2023-24

(Odd Semester)

ENVIRONMENT & ECOLOGICAL SUSTAINABILITY

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION–A

1. Attempt all parts of the following : $1 \times 8 = 8$

   (a) Who coined the term ecology?

   (b) What is detritus food chain?

   (c) What is the major reservoir of carbon on earth?

   (d) What does excess fluoride in drinking water cause in teeth?

[P. T. O.

(e) What is hydrogen fuel?

(f) Define the term sustainable development.

(g) Which act is also known as "umbrella act"? 1986

(h) Define the term natality.

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$

(a) Define ELR. Explain various zones of atmosphere with help of suitable sketch. How temperatures vary on increasing the height in atmosphere?

(b) Describe the strucutre and function of an ecosystem. What are the role of producer, consumers and decomposers in an ecosystem?

(c) Differentiate between water borne and water induced diseases. Describe about fluoride problem in drinking water.

(d) What is a primary and secondary air pollutant? Discuss removal methods of gaseous and particulate matter from polluted air.

SECTION – C

Note:- Attempt any two parts from each question. Each part carry equal marks. $8 \times 5 = 40$

3. (a) What is ecological pyramid? Describe different kinds of ecological pyramid.

   (b) What is rain water harvesting? Discuss different methods of harvesting and its benefits.

   (c) "Climate change" is the main cause of global warming. Comment on it.

4. (a) What is biogeochemical cycle? Explain in detail about nitrogen cycle with suitable diagram.

   (b) Define biodiversity? What is meant by in-situ and ex-situ conservation of biodiversity? Give examples.

   (c) Write short notes on the role of NGO's in environmental protection.

5. (a) What is EIA? Discuss about objectives and its different steps.

(b) Differentiate between following :

(i) Lentic and lotic water

(ii) Deforestation and forest degradation

(c) What is meant by the term 'population explosion'? Discuss sigmoid curve of population growth.

6. (a) What are conventional and non-conventional energy sources? Describe the mechanism of photovoltaic cell with suitable diagram. Discuss merits and demerits of solar energy.

(b) What is mineral resources? Discuss about its exploitation and conservation.

(c) What are environment legislations? Discuss environment protection act.

⌘⌘⌘