SAVITRIBAI PHULE PUNE UNIVERSITY

Progressive Education Society's

Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-411016

B.Sc. Blended Program

(A degree of Savitribai Phule Pune University equivalent to the degree of University of Melbourne)

End Semester Examination: October/November 2022(January 2023)

Program: B.Sc. Blended Program (Specific): B.Sc.Blended (Chemistry)

Set: A

Class: S.Y. B.Sc. Blended Semester: III

Course code: EVSB 312

Course name: Environmental studies I

Credits: 2 Time: 1½ hours Maximum marks : 25

Instructions to the candidate:

- All questions are compulsory.
- Figures to the right indicate marks.
- Draw diagrams wherever necessary.
- Use of scientific calculator is allowed.
- Ask for graph paper if needed.

Q.1] Choose the correct option (Solve ANY 5 out of 6)

 $[1 \times 5 = 5M]$

- 1. The pyramid of energy in an ecosystem is
 - a. Always upright
 - b. May be upright or inverted
 - c. Always inverted
 - d. None of these
- 2. Burning of fossil fuel add
 - a. CO₂, SO₂, NO₂, gases in air
 - b. C, SO₂, N₂, gases in air
 - c. CH₄, CO₂, NO₃, gases in air
 - d. None of these
- 3. The life supporting zone of the earth is
 - a. Lithosphere
 - b. Hydrosphere
 - c. Atmosphere
 - d. Biosphere
- 4. Which gases cause global warming?
 - a. Inert gases
 - b. Rare gases
 - c. Nobel gases
 - d. Greenhouse gases

- 5. When the last individual of a species dies, it is known as
 - a. Speciation
 - b. Adaptation
 - c. Extinction
 - d. Phylogenetic diverstiy
 - 6. Trophic levels are formed by
 - a. Only plants
 - b. organism linked to food chain
 - c. Only animals
 - d. Only carnivorous

Q.2] Answer the following in short (ANY 5 out of 6)

 $[2 \times 5 = 10M]$

- 1. What are renewable resources?
- 2. Comment on ecological succession.
- 3. What is soil erosion? Enlist the causes of same.
- 4. Define sustainable development.
- 5. Draw the energy pyramid.
- 6. Comment on solar energy.

Q.3. Answer in brief (ANY 2 out of 3)

 $[4 \times 5 = 10M]$

- 1. What are the impacts of mining on forests, environment and biodiversity?
- 2. Explain the concept of ecosystem and biodiversity services in detail.
- 3. Explain how environmental study is beneficial.

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