



**Indian Association for the Cultivation of Science  
(Deemed to be University under *de novo* Category)**

***Integrated Bachelor's and Master's Program  
End-Semester Examination ( Semester II-2020)***

***Subject: Know your Environment  
Full Marks: 50***

***Subject Code(s): AEC 1201  
Time Allotted: 3 h***

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**A. Multiple Choice Questions. Write the correct answer only. [2\*10=20]**

1. Volatile organic compounds are  
(a) Particulate pollutant (b) conventional pollutant (b)Unconventional pollutant
2. Carbon fixation indicates, when  
(a) Photosynthetic organism take up carbon dioxide (b)Movement of energy between two trophic levels (c) Assimilation by decomposers
3. The process designated to capture and use waste heat rather than simply releasing it into the atmosphere as a thermal pollutant, known as  
(a) Energy depletion (b) Cogeneration (b)Energy efficiency reduction
4. Converting coal into gas is known as  
(a) Biogas (b) Greenhouse gas (c)Syngas
5. The “Love canal” incidence is associated with  
(a) Electronic waste (b) Hazardous waste (c)Sanitary landfill
6. The study of soil is known as  
(a) Petrology (b) Pedology (c)Limnology
7. A zone that has photosynthetic organisms in ocean ecosystem, is known as  
(a) Hadal zone (b) Abyssal zone (c)Epipelagic zone
8. Species experiencing a decline in the number of individuals to a degree that raises concern about the possibility of extinction of that species is known as-  
(a) Extinct (b)Vulnerable (c)Threatened

9. Reestablishment of an ecosystem after disturbances is known as \_\_\_\_\_ succession.  
(a) Primary succession                      (b) secondary succession                      (c) dune succession
10. An area that is biologically isolated so that a species occurring within the area cannot mix with any other population of the same species is called \_\_\_\_\_.  
(a) Ecological island                      (b) Ecological pyramid                      (c) Ecological niche

**B. Explain the statements and relevance associated (any ten) [2\*10=20]**

- ✓1. Dilution is not the solution to pollution.
- ✓2. Wastes should not be dumped openly.
- ✓3. Biodiversity hotspots are rich and threatened.
- ✓4. Decomposers play an important role in nutrient cycling.
5. Reproductive strategies for r- and k-selected species are not similar.
- ✓6. Invasive species may threaten endemic biodiversity.
- ✓7. Bioaccumulation and biomagnifications increase chemical concentrations.
- ✓8. Increase in green house gases warm the planet.
9. Indoor air pollution can be more dangerous than outdoor air.
10. Pollution control strategy must consider both point and non-point sources.
- ✓11. Cultural eutrophication may enhance nutrient content in water bodies.
- ✓12. Energy can be derived from biomass.
13. Renewable energy resources should be given priority for a sustainable future.
- ✓14. Composting recycles organic waste effectively.
15. Environmental policies can help to preserve our common environment.

**C. Discuss the following issues (any two) [2\*5=10]**

- ✓1. Garbage: Liability or Resource
2. COVID-19 and its impact on Environment
- ✓3. Science help us to understand our Environment
4. Environmental movements: For a better and sustainable world to live in