



Enrollment No.....

Faculty of Science

End Sem (Even) Examination May-2019

BC3AE02 / CA3AE02 Environmental Science

Programme: B.Sc. (CS) /
BCABranch/Specialisation: Computer
Science/ Computer Application**Duration: 3 Hrs.****Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which state in India has lowest birth rate **1**
(a) J&K (b) Kerala (c) H.P (d) Bihar
- ii. EIH helps **1**
(a) Achieve sustainable development
(b) Reap environmental benefits without degradation
(c) Maintain the balance between population and resource
(d) All of these
- iii. Which of the following is not as a consequence of global warming? **1**
(a) Rising sea level
(b) Increased agricultural productivity worldwide
(c) Worsening health effects
(d) All of these
- iv. Which of the following is a prime health risks associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone? **1**
(a) Damage to digestive system. (b) Increased liver cancer.
(c) Neurological disorder. (d) Increased skin cancer.
- v. Which conditions are created when annual rainfall is below normal and less than evaporation **1**
(a) Drought (b) Flood (c) Both (a) and (b) (d) None of these
- vi. Which of the following is not a hot spot of biodiversity in India? **1**
(a) Eastern Himalayas (b) Western ghats
(c) Sunderbans (d) Indo – Burma
- vii. How the biological oxygen demand gets affected with the increased presence of organic matter in water? **1**
(a) The oxygen demand increases
(b) The oxygen demand decreases
(c) The oxygen demand remains unchanged
(d) None of these

- viii. As energy flows through a food chain, energy in each successive trophic level **1**
(a) Increases (b) Decreases
(c) Remains unchanged (d) Is unpredictable
- ix. Rating of green building is done by **1**
(a) CPCB (b) GRIHA (c) NEERI (d) MoEF
- x. Which of the following is not an important characteristic of the Green Revolution? **1**
(a) Mechanized agriculture (b) Hybrid seeds
(c) Slash and burn (d) All of these

- Q.2 i. Define Organic farming. **2**
ii. Write about Environmental education. **3**
iii. What are strategies to achieve sustainability? **5**
OR iv. Summarize the scope and importance of environmental studies. **5**
- Q.3 i. What are the problems of population explosion? **2**
ii. What are the effects of greenhouse effect and global warming? **8**
OR iii. Write in detail about the solid waste management. **8**
- Q.4 i. What are the causes of land degradation? **3**
ii. Explain India as a mega biodiversity nation. **7**
OR iii. Explain in detail about the following including applications **7**
(a) Solar energy (b) Wind energy
(c) Tidal energy
- Q.5 i. Discuss about the impacts of nuclear pollution. **4**
ii. Write briefly about **6**
(a) Water pollution (b) Noise pollution
OR iii. Explain energy flow pattern in different types of ecosystems. **6**
- Q.6 Attempt any two:
i. Discuss briefly about the concept of green building. **5**
ii. What is green technology? Explain its goals & benefits. **5**
iii. Explain Green Computing and Green Business with examples. **5**

Marking Scheme
BC3AE02 / CA3AE02 Environmental Science

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|-----|-------|---|---------------|----------|
| Q.1 | i. | Which state in India has lowest birth rate | | 1 |
| | | (b) Kerala | | |
| | ii. | EIH helps | | 1 |
| | | (d) All of these | | |
| | iii. | Which of the following is not as a consequence of global warming? | | 1 |
| | | (b) Increased agricultural productivity worldwide | | |
| | iv. | Which of the following is a prime health risks associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone? | | 1 |
| | | (d) Increased skin cancer. | | |
| | v. | Which conditions are created when annual rainfall is below normal and less than evaporation | | 1 |
| | | (a) Drought | | |
| | vi. | Which of the following is not a hot spot of biodiversity in India? | | 1 |
| | | (c) Sunderbans | | |
| | vii. | How the biological oxygen demand gets affected with the increased presence of organic matter in water? | | 1 |
| | | (a) The oxygen demand increases | | |
| | viii. | As energy flows through a food chain, energy in each successive trophic level | | 1 |
| | | (b) Decreases | | |
| | ix. | Rating of green building is done by | | 1 |
| | | (b) GRIHA | | |
| | x. | Which of the following is not an important characteristic of the Green Revolution? | | 1 |
| | | (c) Slash and burn | | |
| Q.2 | i. | Definition of Organic farming. | | 2 |
| | ii. | Environmental education. | | 3 |
| | iii. | Strategies to achieve sustainability | | 5 |
| OR | iv. | Scope of environmental studies | 2.5 marks | 5 |
| | | Importance of environmental studies | 2.5 marks | |
| Q.3 | i. | Problems of population explosion | | 2 |
| | ii. | Effects of greenhouse effect | 4 marks | 8 |
| | | Effects of global warming | 4 marks | |
| OR | iii. | Solid waste management | | 8 |
| | | 2 marks for each technique | (2 marks * 4) | |

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|-----|------|---|---------|----------|
| Q.4 | i. | Causes of land degradation | | 3 |
| | ii. | India as a mega biodiversity nation. | | 7 |
| OR | iii. | (a) Solar energy | 1 mark | 7 |
| | | (b) Wind energy | 1 mark | |
| | | (c) Tidal energy | 1 mark | |
| | | Applications | 4 marks | |
| Q.5 | i. | Impacts of nuclear pollution. | | 4 |
| | ii. | (a) Water pollution | 3 marks | 6 |
| | | (b) Noise pollution | 3 marks | |
| OR | iii. | Energy flow pattern in different types of ecosystems. | | 6 |
| Q.6 | | Attempt any two: | | |
| | i. | Concept of green building. | | 5 |
| | ii. | Green technology and its goals & benefits. | | 5 |
| | iii. | Green Computing and Green Business with examples. | | 5 |
