

**2014**



**1. Which one of the following is the process involved in photosynthesis?**

- a. Potential energy is released to form free energy**
- b. Free energy is converted into potential energy and stored**
- c. Food is oxidized to release carbon dioxide and water**
- d. Oxygen is taken, and carbon dioxide and water vapour are given out**

**2014**



**2. Which of the following adds/add carbon dioxide to the carbon cycle on the planet Earth?**

- 1. Volcanic action**
- 2. Respiration**
- 3. Photosynthesis**
- 4. Decay of organic matter**

**Select the correct answer using the code given below.**

- a. 1 and 3 only**
- b. 2 only**
- c. 1, 2 and 4 only**
- d. 1, 2, 3 and 4**

**2014**



**3. Lichens, which are capable of initiating ecological succession even on a bare rock, are actually a symbiotic association of**

- a. algae and bacteria**
- b. algae and fungi**
- c. bacteria and fungi**
- d. fungi and mosses**

**2014**



**4. The most important strategy for the conservation of biodiversity together with traditional human life is the establishment of**

- a. Biosphere Reserves**
- b. Botanical Gardens**
- c. National Parks**
- d. Wildlife Sanctuaries**

**2014**



**5. With reference to 'Eco-Sensitive Zones', which of the following statements is/are correct?**

- 1. Eco-Sensitive Zones are the areas that are declared under the Wildlife (Protection) Act, 1972.**
- 2. The purpose of the declaration of Eco-Sensitive Zones is to prohibit all kinds of human activities, in those zones except agriculture.**

**Select the correct answer using the code given below.**

- a. 1 only**
- b. 2 only**
- c. Both 1 and 2**
- d. Neither 1 nor 2**

**2014**



**6. If you walk through the countryside, you are likely to see some birds stalking alongside the cattle to seize the insects, disturbed by their movement through grasses, Which of the following is/are such bird/birds?**

- 1. Painted Stork**
- 2. Common Myna**
- 3. Black-necked Crane**

**Select the correct answer using the code given below.**

- a. 1 and 2**
- b. 2 only**
- c. 2 and 3**
- d. 3 only**

**2014**



**7. Consider the following countries:**

- 1. Denmark**
- 2. Japan**
- 3. Russian Federation**
- 4. United Kingdom**
- 5. United States of America**

**Which of the above are the members of the 'Arctic Council'?**

- a. 1, 2 and 3**
- b. 2, 3 and 4**
- c. 1, 4 and 5**
- d. 1, 3 and 5**





**2014**



**8. There is some concern regarding the nanoparticles of some chemical elements that are used by the industry in the manufacture of various products. Why?**

- 1. They can accumulate in the environment, and contaminate water and soil.**
- 2. They can enter the food chains.**
- 3. They can trigger the production of free radicals.**

**Select the correct answer using the code given below.**

- |                        |                      |
|------------------------|----------------------|
| <b>a. 1 and 2 only</b> | <b>b. 3 only</b>     |
| <b>c. 1 and 3 only</b> | <b>d. 1, 2 and 3</b> |

**2014**



**9. Other than poaching, what are the possible reasons for the decline in the population of Ganges River Dolphins?**

- 1. Construction of dams and barrages on rivers**
- 2. Increase in the population of crocodiles in rivers**
- 3. Getting trapped in fishing nets accidentally**
- 4. Use of synthetic fertilizers and other agricultural chemicals in crop-fields in the vicinity of rivers**

**Select the correct answer using the code given below.**

- |                           |                         |
|---------------------------|-------------------------|
| <b>a. 1 and 2 only</b>    | <b>b. 2 and 3 only</b>  |
| <b>c. 1, 3 and 4 only</b> | <b>d. 1, 2, 3 and 4</b> |

**2014**



**10. If you travel through the Himalayas, you are Likely to see which of the following plants naturally growing there?**

- 1. Oak**
- 2. Rhododendron**
- 3. Sandalwood**

**Select the correct answer using the code given below**

- a. 1 and 2 only**
- b. 3 only**
- c. 1 and 3 only**
- d. 1, 2 and 3**

**2014**

