

# 2013 QUESTIONS



1. Which one of the following terms describes not only the physical space occupied by an organism, but also its functional role in the community of organisms?

- (a) Ecotone
- (b) Ecological niche
- (c) Habitat
- (d) Home range

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2. With reference to food chains in ecosystems, consider the following statements :

1. A food chain illustrates the order in which a chain of organisms feed upon each other.
2. Food chains are found within the populations of a species.
3. A food chain illustrates the numbers of each organism which are eaten by others.

Which of the statements given above is / are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) None

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3. Acid rain is caused by the pollution of environment by

- (a) carbon dioxide and nitrogen
- (b) carbon monoxide and carbon dioxide
- (c) ozone and carbon dioxide
- (d) nitrous oxide and sulphur dioxide

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4. In the grasslands, trees do not replace the grasses as a part of an ecological succession because of :

- (a) insects and fungi
- (b) limited sunlight and paucity of nutrients
- (c) water limits and fire
- (d) None of the above

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5. With reference to the food chains in ecosystems, which of the following kinds of organism is / are known as decomposer organism/organisms? (2013)

1. Virus
2. Fungi
3. Bacteria

Select the correct answer using the codes given below.

- |                  |                  |
|------------------|------------------|
| (a) 1 only       | (b) 2 and 3 only |
| (c) 1 and 3 only | (d) 1, 2 and 3   |

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6. Consider the following pairs:

1. Nokrek Biosphere Reserve: Garo Hills
2. Logtak (Loktak) Lake : Barail Range
3. Namdapha National Park : Dafla Hills

Which of the above pairs is/are correctly matched?

- a. 1 only
- b. 2 and 3 only
- c. 1, 2 and 3
- d. None

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7. In which of the following States is lion-tailed macaque found in its natural habitat?

1. Tamil Nadu
2. Kerala
3. Karnataka
4. Andhra Pradesh

Select the correct answer using the codes given below.

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

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8. Consider the following fauna of India:

1. Gharial
2. Leatherback turtle
3. Swamp deer

Which of the above is/are endangered?

- a. 1 and 2 only
- b. 3 only
- c. 1, 2 and 3
- d. None

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9. With reference to the usefulness of the by-products of the sugar industry, which of the following statements is/are correct?

1. Bagasse can be used as biomass fuel for the generation of energy.
2. Molasses can be used as one of the feedstocks for the production of synthetic chemical fertilizers.
3. Molasses can be used for the production of ethanol.

Select the correct answer using the codes given below.

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

