EXERCISE – I (Conceptual Question)

Build Up your Understanding

- 1. The population of an insect species shows an explosive increase in numbers during rainy season followed by its disappearance at the end of the season. What does this show?
 - (1) The population of its predators increases enormously
 - (2) S-shaped or sigmoid growth of this insect
 - (3) The food plants mature and die at the end of the rainy season.
 - (4) Its population growth curve is of J-type
- 2. The formula for exponential population growth is
 - (1) dt/dN = rN
- (2) dN/rN = dt
- (3) rN/dN = dt
- (4) dN/dt = rN
- 3. Regarding life history variations. Which among the following is incorrect?
 - (1) Breeding once in life time Bamboo
 - (2) Breeding many times in life time Birds
 - (3) Production in large number of small size offspring Mammals
 - (4) Production in small number of large size offspring Birds
- $4. \qquad \frac{dN}{dt} = rN \bigg(\frac{K-N}{K} \bigg)$

In above equation $\left(\frac{K-N}{K}\right)$ represent :-

(1) Carrying capacity

- (2) Environmental resistance
- (3) Rate of change in population density
- (4) Intrinsic rate of growth
- 5. In a pond there are 400 lotus plant last year; through reproduction 16 new lotus plants are added, taking the current population to 416, then calculate the birth rate.
 - (1) 0.4 offspring per year

(2) 0.6 offspring per year

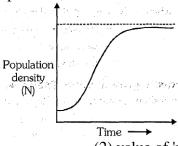
(3) 0.08offspring per year

- (4) 0.04 offspring per year
- 6. A country has a high number of reproductive individual than pre-reproductive individual, what is correct about the population?
 - (1) Population is expanding

(2) Population is declining

(3) Population is stable

- (4) Cannot be predicted
- 7. In a logistic growth curve of population, environmental resistance is maximum when :-



- (1) value of 'r' is high

(2) value of 'r' is low

(3) N approaches K

(4) K approaches N



ANSWER KEY

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1. (4) **2.** (4) **3.** (3) **4.** (2) **5.** (4) **6.** (2) **7.** (3)

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