

# Organisms and Populations

## CHAPTER-11

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1. Herons stay near where animals graze to get food. What is this interaction called?

- (a) cooperativeness
  - (b) commensalism
  - (c) Parasitism
  - (d) predation
- (B)

2. When a graph is made under exponential growth, what type of graph is it made?

- (a) S-shaped
  - (b) J-shaped
  - (c) L-shaped
  - (d) M-shaped
- (B)

3. A biologist studied a population of rats in a garden. He found that the average birth rate is 250, the average death rate is 240, the immigration rate is 20 and the emigration rate is 30. What is the decrease/increase (net) of the population?

- (a) 10
  - (b) 15
  - (c) 05
  - (d) zero
- (D)

4. A species of Mediterranean orchid called Afris takes help of what for pollination?

- (a) sexual valve
- (b) asexual valve

- (c) somatic valve
- (d) microscopic valve

(a)

5. Ascaris lives in the human intestine, what kind of relationships are there?

- (a) cooperativeness
- (b) commensalism
- (c) endoparasitism
- (d) external parasitism

(C)

6. Mycorrhiza is the relationship in the roots of higher plants-

- (a) Parasitism
- (b) cooperativeness
- (c) commensalism
- (d) all

(B)

7. Population density increases-

- (a) rapid mortality rate
- (b) emigration
- (c) migration abroad
- (d) None

(C)

8. Which of the following is inconsistent/false?

(A)  $dN/dt = \frac{rN(K-N)}{K}$

(B)  $dN/dt = rN$

(C)  $Nt + I = N_1 + [(B + I) - (D + E)]$

(D) All

9. The second special quality of the universe is-

(a) sex ratio

(b) birth

(c) death

(d) Male and female

(a)

10. A group of organisms of similar species living together in a specific geographical area at a given time is called.

(a) sex ratio

(b) birth rate

(c) mortality rate

(d) population

(D)

11. Which of the following is true?

(i) The ratio of organisms of each group is called the age structure of that population.

(ii) When age distribution is plotted for the population, the structure formed is called age pyramid.

(iii) Age pyramid usually shows the combined diagram of age distribution of males and females.

(a) (i) and (ii)

(b) (ii) and (iii)

(c) (i) and (ii)

(d) (i), (ii) and (iii)

(D)

12. Calotropis weed often grows in empty places. No animal eats it. It contains a poisonous substance.

(a) nicotine

(b) Glycoside

(c) Quinine

(d) Nucleoside

(B)

13. Such biological activity in which one species benefits while the other species neither benefits nor suffers loss -

(a) cooperativeness

(b) predation

(c) commensalism

(d) competition

(C)

1. Explain the four basic processes of increase and decrease in population density in a habitat?

Or

Mention any four characteristics of population?

2. Explain the difference between predation and parasitism?

3. Write a short note on the following  
(i) Gauss's law (ii) Mutualism (iii) Egg

parasitism

4. What is the reason why a petal of a Mediterranean orchid flower resembles a female bee in its colour, shape and markings? explain?

5. Write any four differences between a parasite and a predator.

6. What is growth model? Explain while representing macro growth graph?

7. Explain camouflage and commensalism with examples?

8. Wasps prefer fig tree trunks as suitable sites for laying eggs. Explain the reason.

9.

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