BHARATIYA VIDYA BHAVAN'S V.M.PUBLIC SCHOOL, VADODARA

SESSION 2017-18

Question Bank

CHAPTER 13

ORGANISMS AND POPULATIONS

VERY SHORT ANSWER QUESTIONS (1 marks each)

Q1 What does ecological niche of an organism represent?
Q2 What does sigmoid growth curve of a population indicate?
Q3 Give one function of aerenchyma in aquatic plant?
Q4 What does J-shaped growth curve of a population indicate?
Q5 What are ectotherms?
Q6 What do you mean by term eurythermal?
Q7 Why mammal are most sucessful animals on earth?
Q8 What cause the annual variation in the distinct seasons?
Q9 What is stenothermal?
Q10 What is habitat?
Q11 What are the two primary requirements of a parasite from the host?
Q12 Name the mechanism employed by orphrys to get its flower pollinated?
Q13 Expand CAM?
Q14 What is meant by 'competitive release'?
Q15 What is Allen's rule?

SHORT ANSWER QUESTIONS (2 marks each)

Q1 Explain relationship between biotic potential and environmental resistance.
Q2 Define phenotypic adaptation.Give one example.
Q3 What is arenchyma?Mention any two specific functions of this tissue in hydrophyters.
Q4 Differntiate between hibernation and aestivation.Give one example of each.
Q5 Name the type of curve that charcterises most population growing in favourable environment.Also define carying capacity.
Q6 Name the special type of tissue enabling palnt like lotous and water hyacinth to survive in aquatic environment.Mention any two specific function of this tissue.
Q7 What does S-shaped pattern of populaton growth represent?How is J-shaped pattern different from it and why?
Q8 How is cactus adapted to survive in its habitat?
Q9 Lichen is considered a good example of obligate mutualism.Expalin.
Q10 Diferentiate between mutualism and commensalism.

SHORT ANSWER TYPE QUESTIONS (3 marks each)

Q1 How does the mutualism differ from commensalism?Give one example each?
Q2 Define phenotypic adaptation.Give one example.
Q3 What is aerenchyma?Mention any two specific function of this tissue in hydrophytes.
Q4 Differenciate between hibernation and aestivation. Give one example of each.
Q5 Name the type of curve that charaterises most population growing in favourable environment . Also define carrying capacity.

LONG ANSWER QUESTION (5 marks each)

Q1 What is mutualism?Describe any four examples.
Q2 Describe the exponential growth model of a poulation with diagram and curve
Q3 Define commensalism.Describe any four examples
Q4 What is adaptation?Describe the adaptation of plant and animal in desert.