

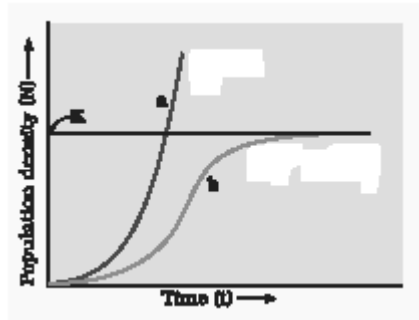
CLASS

XII

TOPIC : ORGANISMS AND POPULATION

ONE MARK QUESTION

- 1 Identify the curves 'a' and 'b' shown in the graph given below. List the conditions responsible for growth patterns 'a' and 'b'.



- 2 Why and when do some animals like frogs hibernate?
- 3 Mention any two significant roles predation plays in nature?
- 4 Why is the polar region not a suitable habitat for tiny humming birds?
- 5 Name the type of interaction seen between whale and the barnacles growing on its back.

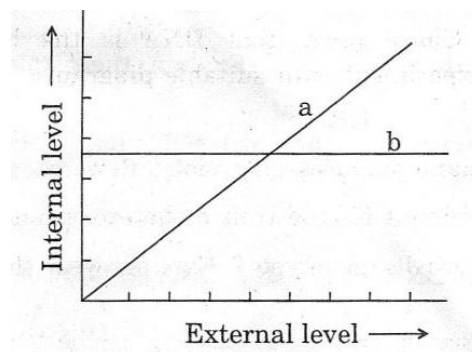
TWO MARK QUESTIONS

- 6 Name the interaction in each of the following:
- Cuckoo lays her eggs in the crow's nest
 - Orchid grows on a mango tree
 - Ticks live on the skin of dogs.
 - Sea anemone is often found on the shell of hermit crab.

- 7 Certain species of wasps are seen to frequently visit flowering fig trees. What type of interaction is seen between them and why?
- 8 Egrets are often seen along with grazing cattle. How do you refer to this interaction? Give a reason for this association.
- 9
 - a) What is “r” in the population equation given below: $\frac{dN}{dt}=rN$
 - b) How does the increase and decrease in the value of ‘r’ affect the population size?
- 10 How does the Mediterranean orchid *Ophrys* ensure its pollination by bees?
- 11
 - a) How is *cuscuta* adapted to be a parasitic plant?
 - b) Why do cattle avoid browsing on *Calotropis* plants? Explain.

3 MARK QUESTIONS

- 12 The following graphs represents the organismic response to certain environmental condition (e.g ., Temperature)



- a) Which one of these, ‘a’ and ‘b’ depicts conformers?
 - b) What does the other line graph represent?
 - c) How do these organisms differ from each other with reference to homeostasis?
 - d) Mention the category to which humans belong.
- 13 Why is predation required in a community of different organisms?