

**BCM SCHOOL BASANT AVENUE DUGRI ROAD, LUDHIANA**  
**XII BIOLOGY**  
**ASSIGNMENT**

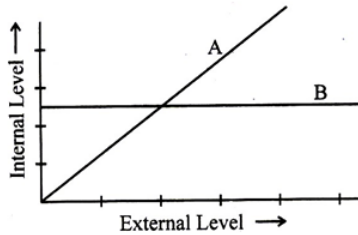
**1** Why Western Ghats in India have been declared as biological hot-spots?

**2** Given below is a table depicting population interactions between species A and species B.

Type of interaction	Species A	Species B
(a)	(-)	(+)
(b)	(+)	(-)

Name the types of interactions (a) and (b) in the above table.

**3** The graph given below represents the organisms response to temperature as an environmental condition.

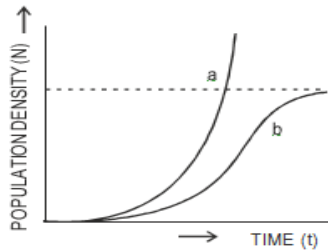


- (i) Which one of the two lines represents conformers and why?
- (ii) What does the other line in the graph represent and why?
- (b) Mention the different adaptations the parasites have evolved with, to be able to successfully complete their life cycles in their hosts.

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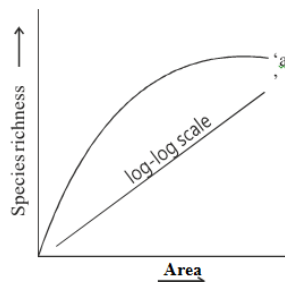
**4** (a) Represent diagrammatically three kinds of age-pyramids for human populations.  
 (b) How does an age pyramid for human population at given point of time helps the policy-makers in planning for future.

**5** Study the graph given below and answer the question that follow :



- (i) Write the status of food and space in the curves (a) and (b).
- (ii) In the absence of predators, which one of the two curves would appropriately depict the prey population?
- (iii) Time has been shown on X-axis and there is a parallel dotted line above it. Give the significance of this dotted line.

**6** The following graph shows the species-area relationship. Answer the following question as directed.



- (a) Name the naturalist who studied the kind of relationship shown in the graph. Write the observation made by him.
- (b) Write the situations as discovered by the ecologists when the value of 'Z' (slope of the line) lies between:
  - (i) 0.1 and 0.2
  - (ii) 0.6 and 1.2
- (c) What does 'Z' stand for?
- (d) When would the slope of the line 'b' become steeper?