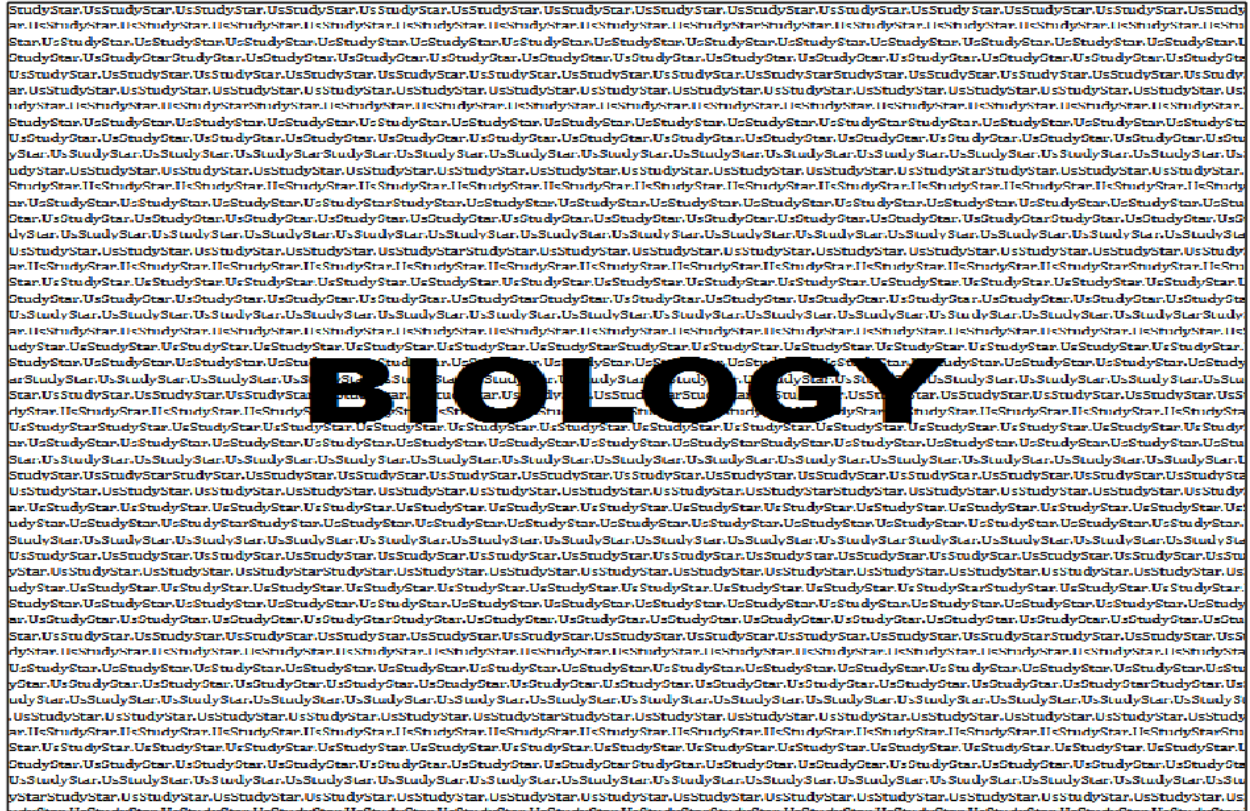




Ecology

Total Marks: 25

Duration: 0 hours, 20 minutes

Instructions to test takers

1. Answer all the questions in this paper
2. All the answers for the questions in this paper will be found on

Study Star ([STudy STar](#))

3. Using the answers on the website, mark yourself truthfully and carefully.

Turn this page, time yourself and begin the test

Section A [10]

1. An area made of communities of living things that interact with each other and the non-living environment is referred to as _____
 - (a) Niche
 - (b) Ecosystem
 - (c) Ecology
2. Which of the following is the principle source of energy for the ecosystem?
 - (a) Sun
 - (b) Water
 - (c) Cabbage
3. By what process do producers obtain energy?
 - (a) Respiration
 - (b) Transpiration
 - (c) Photosynthesis
4. What species is given the term producers?
 - (a) Fungi
 - (b) Plants
 - (c) Animals
5. A sequence of feeding relationships that begins with the producers and involves at least three organisms is known as _____
 - (a) Food web
 - (b) Food chain
 - (c) Feeding relationships
6. Primary consumers occupy the _____ trophic level
 - (a) 1st
 - (b) 2nd
 - (c) 3rd
7. A group of interlinked food chains is known as _____
 - (a) Food link
 - (b) Food chain
 - (c) Food Relationship
8. Study the diagram below.



What type of pyramid is shown in the diagram above?

- (a) Pyramid of energy
- (b) Pyramid of biomass
- (c) Pyramid of mass

9. The total dry mass of an organism is referred to as _____

- (a) Total mass
- (b) Biomass
- (c) Sumass

10. Study the diagram below.

Cabbage → Rabbit → Man

Which organism represents the level with the highest biomass?

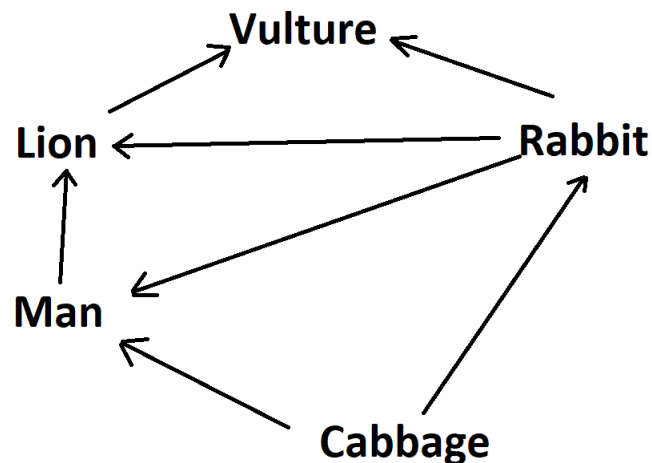
- (a) Cabbage
- (b) Rabbit
- (c) Man

Section B [5]

11. A group of populations found in the same area and interact with each other is called _____
12. A place where an organism lives is called _____
13. The specific role played by a given organism in an ecosystem is called _____
14. Animals that feed on secondary consumers are known as _____
15. The study of interactions of living things with each other and their environments is referred to as _____

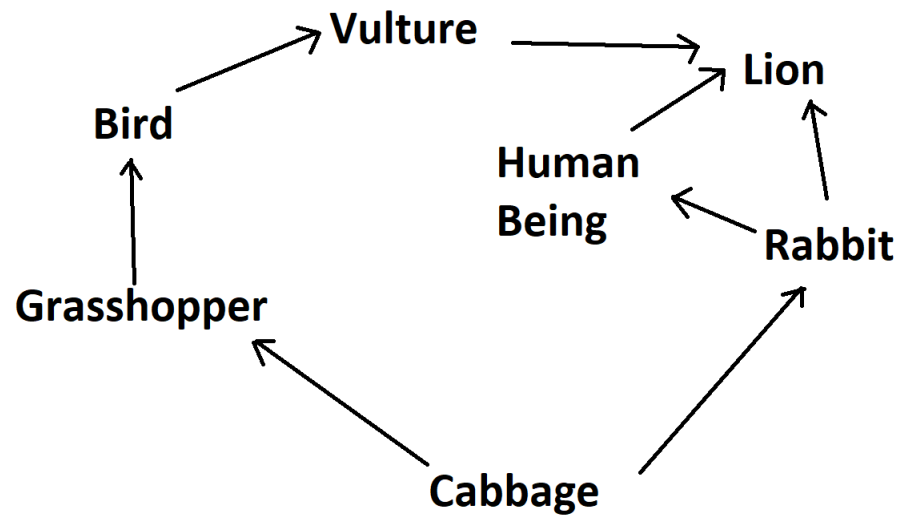
Section C [10]

16. Study the diagram below of a food web.



From the above diagram construct a food chain with five levels. [3]

17. State the differences between a food chain and a food web. [2]
18. Study the diagram below.



Construct a food chain of four organisms. [3]

19. Identify any one secondary consumer from the above food web in question 18 above. [1]

20. What type of consumer is a vulture? [1]