

BIOLOGY

SAMPLE BOOK





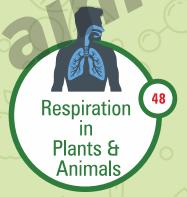
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GRADE-7











Experiential Experimental Edutaining



I AM PROGRESSING

(Tick mark the columns after achieving the Learning Milestones)



1st Revision 2nd Revision **TOPIC 1st Learning Exercise Solving Nutrition in** Plants & **Animals** Weather, Climate & **Adaptation** Respiration in Plants & Animals



BIOLOGY

SAMPLE THEORY

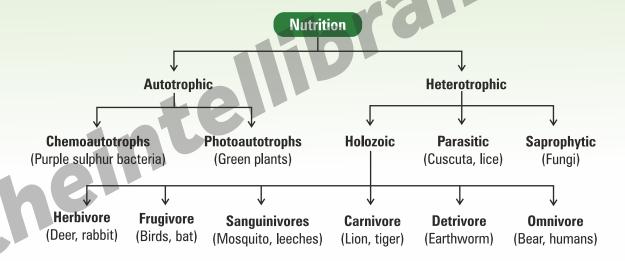
NUTRITION IN PLANTS & ANIMALS

INTRODUCTION

- All living organisms require food to grow, repair damaged parts of their bodies and get the energy to carry out life processes.
- In both plants and animals, the basic component of food are nutrients like carbohydrates, proteins, fats, vitamins and minerals.
- Plants can make their own food themselves but animals including humans cannot. Animals get ready-made food from plants or animals. Thus, humans and animals are directly or indirectly dependent on plants.

NUTRITION

Nutrition is the process of intaking as well as utilization of food. Nutrition is of mainly two types:



- Autotrophic Nutrition: It is a mode of nutrition in which organisms are able to build up their own
 organic food from inorganic raw materials with the help of energy.
 - (A) **Chemoautotrophs**: These organisms utilize chemical energy for preparing their food. E.g. H₂S used by sulphur bacteria.
 - (B) **Photoautotrophs**: These organisms use light energy for the synthesis of food. E.g. Green plants.







BIOLOGY

SAMPLE EXERCISE





Directions: Solve the following multiple choice questions by choosing the most appropriate option.

WEATHER, CLIMATE

1.	Н	lumid	lity	is	measured	by	using
----	---	-------	------	----	----------	----	-------

- (1) Thermometer
- (2) Rain gauge
- (3) Hygrometer
- (4) All of these

2. Rain gauge is used to measure

- (1) humidity
- (2) rainfall
- (3) temperature
- (4) All of these

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The climate of a place depends on 3.

(1) latitude

(2) altitude

(3) distance from the sea

(4) All of these

4. At which time of the day is the maximum temperature found?

- (1) Morning
- (2) Afternoon
- (3) Evening
- 4) Night

In weather all the changes are caused by 5.

(1) Sun

- (2) wind speed
- (3) humidity
- (4) rain fall

The primary source of energy is 6.

(1) air

- (2) Earth
- (3) rain

(4) Sun

Every day the weather is recorded by 7.

- (1) scientists
- (2) meteorologists
- (3) ophthalmologists
- (4) foreigners

Time taken by average weather pattern is

- (1) 20 years
- (2) 50 years
- (3) 30 years
- (4) 75 years

Which place in India has high temperature during most part of the year? 9.

- (1) Andhra Pradesh
- (2) Rajasthan
- (3) Jammu & Kashmir
- (4) Delhi

10. The place which receives very little rain fall in India is

- (1) Andhra Pradesh
- (2) Kerala
- (3) Rajasthan
- (4) Madhya Pradesh

Which region is wet in India? 11,

- (1) North west
- (2) South west
- (3) North east
- (4) South part



ADAPTATION The animals do not compete for (T) matters CD: Nood IK NAM 13. Which of these is an adaptation of a polar bear ? (1) It has a thick cost of fur (2) It produces little urine CE'T does not sweat (4) It can story water 14. Which of the following allows a careel to survive in the desert ? (T) It has a thick cost (2) It can story water (2) It is a good parimmer (4) It is white in colour for camouflage What determines whether an individual animal or a plant can survive? (1) Whether it can sat the most (3) Whether it is tell 16. Fennec adapt to the desert climate with the help of (T) long ears CD Buth (1) and (2) 17. The hump of the camel is a re-(1) Sattly Sensor (K) All of Dance a blubber under its skin ? (2) African elephant IE Polar bear ary muste in the form of (2) unit sold CE ammonia IS None of these CCI unes 26. Many depart poincels (1) undergo hibernation (2) are recturned (2) has an Ireas (4) are mostly invertebrates 21. Which of the following birds show migration? (2) Antic ten (1) Snow press (2) Plannigans (6) Buth (1) and (2) Grade-7 | Wissther, Climate & Adaptation

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