

CHAPTER # 1 CLASSIFICATION OF LIVING THINGS

1) Define classification of living things.

The division of living things into groups and subgroup on the basis of similarities and differences present among them is called classification.

2) Describe the need and importance of classification?

It is essential for making their study easier.

They also give scientific names for identification.

3) What are mammals?

Mammals have hair or fur on their bodies. Babies of the mammals are fed on the mother's milk. e.g Human, cows, goats, cats.

4) What are insects?

Invertebrates having jointed legs are called insects. **Name three examples**

An insect have 3 parts. Head, Thorax and abdomen.

For examples Ant, butterfly, bee, cockroach etc.

5) What are cotyledons?

Embryo bears one or two seed leaves called cotyledons.

6) Give key characteristics of the following;

Birds, reptile, amphibians, fish, algae, fungi, worms, bacteria.

Birds
1. All birds have feathers and beaks.
2. A bird has two legs and two wings.
3. Birds can fly and lay eggs with shell.

vertebrates	Invertebrates
They have backbone.	They do not have backbone.
e.g fish, reptiles etc	e.g worms, insects

8) Differentiate flowering and non-flowering plant?

Non-flowering plant	Flowering plant
They do not have flowers.	They have flowers.
They produce seeds in special cone.	They produce their seeds in flowers.
Their seeds are not enclosed within the fruits.	Their seeds are covered within the fruit.
Examples: ferns, mosses, Pine, etc.	Examples: Rose, orange, apple, wheat, rice, etc.

9) Differentiate between the Monocot and dicots.

Monocot	Dicot
Their seed contain only one cotyledon.	Their seed contain two cotyledons
Their leaves have parallel veins.	Their leaves have branched veins
Their leaves are long and narrow.	Their leaves are broad.
The number of sepals and petals of flowers	The number of sepals and petals of flowers

is 3 or multiple of 3,
i.e. 3, 6, 9

Examples: oat,
wheat, rice etc.

is 4 and 5 or multiple
of 4 and 5, i.e. 4, 8,
12 or 5, 10, 15

Examples: Rose,
orange, apple, pea,
etc

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Classification of living things

1.1. Encircle the correct option.

(i) Lizard belongs to which of following groups:-

- (a) Amphibians (b) reptiles
(c) birds (d) mammals.

(ii). An animal with jointed legs:-

- (a) Earthworm (b) cockroach
(c) Snake (d) starfish.

(iii) Fish breathe through:-

- (a) lungs (b) skin (c) gills (d) mouth

(iv) Number of cotyledons in pea seed is

- (a) one (b) two (c) three (d) four

(v) What is true about vertebrates?

- (a) all have lungs (b) all have gills
 (c) all have backbone (d) all have jointed legs

vi. Ferns produce by:-

- (a) Seed developed in fruit.
 (b) Seeds developed in cones.
(c) spores developed in capsules
(d) spores developed on the underside of leaves.

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Q1.5: What do you know about dinosaurs, whale and dolphin?

Ans: **Dinosaurs:** Dinosaurs were the biggest reptiles in ancient times. They do not exist anymore.

Whale and Dolphin: Whale and dolphin are mammals. Blue whale is the world's largest animal. Indus dolphin is a river dolphin of Pakistan. It is not found anywhere else ~~is~~ in the world.