

IN-TEXT OUESTIONS SOLVED

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Question 1. Why do we classify organisms?

Answer: For easier and convenient study we classify organisms.

Question 2. Give three examples of the range of variations that you see in life-forms around you.

Answer:

- (a) Small cat and big cow
- (b) Grass and banyan tree
- (c) Black crow and green parrot

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Question 1. Which do you think is a more-basic characteristic for classifying organisms?

- (a) the place where they live.
- (b) the kind of cells they are made of. Why?

Answer: Classification based on living place is more basic as there can be wide variations in organisms living in a given place.

Question 2. What is the primary characteristic on which the first division of organisms is made?

Answer: Nature of cell is the primary characteristics on which the first division of organisms is decided. Based on this criterion life forms can be classified into prokaryotes or eukaryotes.

Question 3. On what bases are plants and animal' out into different categories?

Answer: Mode of nutrition and presence or absence of cell walls.

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Question 1. Which organisms are called primitive and how are they different from the so-called - advanced organisms?

Answer: Organisms with simple cellular structure and no division of labour are called primitive.

Advanced organisms, like mammals have millions of cells and there are different organs and organ system for different biological functions.

Question 2. Will adiKznced organisms be the same as complex organisms? Why?

Answer: Yes, advanced organisms means greater degree of evolution which leads to more complexity.

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Question 1. Whaf is the criterion for classification of organisms as belonging to kingdom Monera or Protista?

Answer: It is the presence or absence of a well defined nucleus. Monera has no nuclear membrane, while Protista shows well defined nucleus.

Question 2. In which kingdom will you place an organism which is

single-celled, eukaryotic and photosynthetic? Answer: Protista.

Question 3. In the hierarchy of classification, which grouping will have the smallest number of organisms with a maximum of characteristics in common and which will have the largest number of organisms?

Answer: Organisms belonging to Kingdom Monera will have the small number of organisms with a maximum of characteristics in common. And kingdom Animalia will have the largest number of organisms.

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Question 1. Which division among plants has the simplest organisms?

Answer: Thallophyta or algae.

Question 2. How are pteridophytes different from the phanerogams?

Answer: Pteridophytes have naked embryo and inconspicuous reproductive organ whereas — phanerogams have well-differentiated reproductive organs and covered embryo.

Question 3. How do gymnosperms and angiosperms differ from each other?

Answer: Seeds are naked in Gymnosperms and are covered in angiosperms.

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Question 1. How do poriferan animals differ from coelenterate animals?

Answer:

- Animals from Porifera show cellular level of organisation, while those from Coelenterata show tissue level of organisation.
- In Porifera there is no division of labour, while in Coelenterata some division of labour is seen.
- Porifera do not have coelom, while coelenterata have coelom.

Question 2. How do annelid animals differ from arthropods? Answer:

enokorea korzoloki hitziski. Arthropóda	Annelida
Exoskeleton present.	No skeleton.
Body is segmented into head, thorax and abdomen.	Body is segmented into rings.
Sexes can be separate or can be on the same animal.	Hermaphrodite.

Question 3. What are the differences between amphibians and reptiles?

Answer:

Amphibla	Reptilla
Adapted to live in water and land, can breathe by skin in water.	Can live in water but need to come to surface to breathe in oxygen.
2. Skin is moist and soft.	Skin is hardened.
Respiration is either through gills or lungs.	Respiration is through lungs. Move by crawling.
4. Can jump.	Development is direct with no intermediate
Development is indirect through tadpole stage.	stage in life cycle

Question 4. What are the differences between animals belonging to the Aves group and those in the mammalia group? Answer:

Aves	Mammalia
1. Body is covered with feathers.	Body is covered with hairs.
2. Beak is present, teeth absent.	Teeth present, beak absent.
Forelimbs modified for flying.	Forelimbs modified for various activities.
4. Hollow bones for flying.	No hollow bones.
5. Streamlined body.	Body is not streamlined, except in whales.

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