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Biology Science Questions for CDS, CGL Tier-1, Railways and SSC 10+2 Exams

Biology Quiz 7

Directions: Study the following questions carefully and answer the questions given below.

1. Which of the following is not a characteristic of prokaryotic cells?

- A. Only a single chromosome is present
- B. Nucleus is present
- C. Cell division takes place by fission or budding
- D. All of the above are characteristics of a prokaryotic cell

2. Which of the following is an example of osmosis?

- A. Cigarette smoke spreads in the air
- B. Carbon dioxide entering the stomata of leaves
- C. Absorption of water by plant roots
- E. Oxygen diffusing out of the stomata of leaves

3. Which of the following is not a characteristic of animal cell?

- A. Cell wall is present
- B. They have centrosome and centrioles
- C. Animal cells are smaller than plant cells
- D. Plasma membrane is present

4. Which of the following consist of protoplasm?

- A. Nucleus + cytoplasm

B. Liquid substance present in the nucleus - nucleoplasm

C. Ribosomes+ nucleus

D. Mitochondria+ nucleus

5. Which of the following is a water soluble vitamin?

A. Vitamin B12 B. Vitamin A C. Vitamin D D. Vitamin K

6. Which of the following protein is present in nails and hair or human beings?

A. Collagen B. Keratin C. Elastin D. None of the above

7. Which of the following complex compound is used in the treatment of cancer?

A. Cis platin B. Transplatin C. Potassium ferrocyanide D. Sodium cobal nitrite

8. Which of the following vitamin contains Cobalt?

A. Vitamin D B. Vitamin K C. Vitamin C D. Vitamin B12

9. Which of the following gland secretes insulin?

A. Pituitary B. Thyroid C. Pancreas D. Ovaries

10. Which of the following vitamin helps during blood clotting?

A. Vitamin A B. Vitamin D C. Vitamin K D. Vitamin C

Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	C	A	A	A	B	A	D	C	C

Explanations:

1.

There are two types of cells- Prokaryotic cells and eukaryotic cells.

The main difference between the two cells is that prokaryotic cells basically have no nuclei, whereas eukaryotic cells has a nuclei. Eukaryotic cells are larger and more complex than the prokaryotic cells.

Prokaryotes are organisms made up of cells that lack a cell nucleus or any membrane-encased organelles. This means that they have no nucleus. Examples are bacteria.

Eukaryotes are organisms made up of cells that possess a membrane-bound nucleus as well as membrane-bound organelles. These organisms hold the genetic material in their cells. The genetic material in eukaryotes is contained within a nucleus in a cell.

The DNA of these organisms is structured and is organized into chromosomes.

Human body consists of eukaryotic cells.

Hence, option B is correct.

2.

There are two terms which explain the different phenomenon mentioned in the options. Diffusion and osmosis. Diffusion is the the intermingling of substances by the natural movement of their particles. Examples of diffusion here are A,B and D.

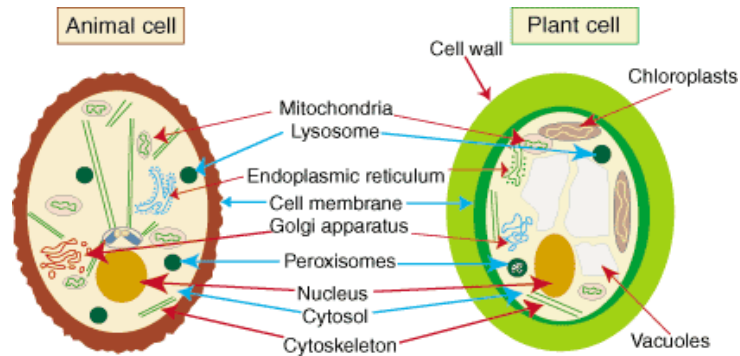
Osmosis is the process by which molecules of a solvent tend to pass through a semipermeable membrane from a less concentrated solution into a more concentrated one.

Absorption of water by plant roots is an example of osmosis.

Hence, option C is correct.

3.

Cells can be broadly classified as animal cells and plant cells. The difference and similarity in the structure can be summarized in the picture below.



Hence, option A is correct.

4.

Protoplasm is a term used for the combination of nucleus and cytoplasm. Nucleoplasm is the term used for the liquid substance present in the nucleus.

Hence, option A is correct.

5.

There are two types of vitamins present in our body. Water soluble vitamins and fat soluble vitamins. Examples of water soluble vitamins include vitamin A, D and K.

Examples of fat soluble vitamins include Vitamin B12 and vitamin C

The fat soluble vitamins are soluble in lipids. These vitamins are usually absorbed in fat globules (called chylomicrons) that travel through the lymphatic system of the small intestines and into the general blood circulation within the body. These fat soluble vitamins, especially vitamins A and E, are then stored in body tissues.

Hence, option A is correct.

6.

Proteins are a sequence of amino acids. Collagen, keratin and elastin are examples of proteins found in our body. Collagen forms the connective framework of our muscles, bones, tendons, skin and cartilage. Keratin is the main structural component in hair, nails, teeth and skin.

Hence, option B is correct.

7.

Cis platin, a complex compound with iupac name- cis-Dichlorodiammineplatinum(II)

is used in the treatment of cancer. Transplatin is inactive towards the treatment because of structural differences.

Hence, option A is correct.

8.

Is a water-soluble *vitamin* that has a key role in the normal. It contains the biochemically rare element cobalt.

Sources of Vitamin B12 are animal products, including fish, meat, poultry, eggs, milk, and milk products.

It is generally not found in Plant products.

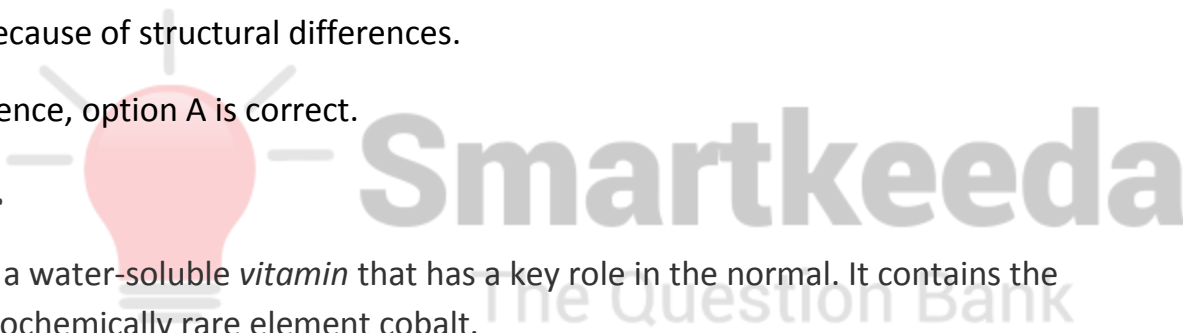
Hence, option D is correct.

9.

Insulin is secreted by the pancreas in our body. Pituitary gland secretes different types of hormones which help in growth and regulate other glands. Thyroid gland produces thyroxine which helps in the metabolism of the body.

Ovaries secrete estrogen and progesterone which affect the female characteristics.

Hence, option C is correct.



10.

Vitamin K is used by the body to help blood clot. Blood clotting, or coagulation, is an important process that prevents excessive bleeding when a blood vessel is injured. Platelets (a type of blood cell) and proteins in your plasma (the liquid part of blood) work together to stop the bleeding by forming a clot over the injury.

Hence, option C is correct.



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