

Class8.

Chapter-8

Cell:structure and function

Q.1 true or false

- a) True
- b) False
- c) False
- d) True

Q.2 make a sketch of the human nerve cell. what function do the Nerve cells perform?

Ans-draw diagram from the textbook The nerves cells receive and transfer messages as well as control and coordinates The functioning of different parts of the body.

Q.3 write short notes on the following

- a) cytoplasm-it is thick jelly like substance present between the cell membrane and the nucleus.various cell organelles such as mitochondria , ribosome , plastids etc. are present in the cytoplasm. It also contain nonliving substances such as water sugar proteins etc.
- b) nucleus- controls all the activities of the cell and regulate its growth and membrane called the nuclear membrane separates the nucleus from the cytoplasm. I small round shaped body called nucleolus is present within the nucleus. Thread like structure is called chromosome are also present in the nucleolus, which carry jeans or the hereditary unit of living organism.

Q.4 which part of the cell contains organelles?

Ans-cytoplasm present between the cell membrane and the nucleus contains the various cell organelles.

Q.5 make the sketches of plants and animal cells. State three difference between them.

Ans- Plant cell

- a) cell membrane is surrounded by an additional covering called cell wall.
- b) plant cell contains chloroplast.
- c) plant cells do not contain centrosome.

Animal cell

- a) cell membrane is not covered by cell wall.
- b) animal cell does not have chloroplasts.
- c) animal cells contain centrosome.

Q.6 state the difference between eukaryotes and prokaryotes.

Ans- Eukaryotes

- a) eukaryotes are organism which have eukaryotic cells.

- b) Their cells contain a well define nucleus with a clear nuclear membrane.
- c) animals and plants are eukaryotes.

Prokaryotes

- a) prokaryotes are the organisms which have prokaryotic cells.
- b) Their cells don't have well organised nucleus.
- c) bacteria and blue green algae are prokaryotes.

Q.7 where are chromosomes found in the cell? State their function.

Ans-Chromosomes are found in the nucleus of a cell. Chromosomes carry genes and help in the inheritance that is transfer of characteristics from the parent to the off spring.

Q.8 cells are basic structural unit of living organisms explain.

Ans-Ash bricks are put together to construct a building, similarly the body of a living organism is formed of cells. All the basic life functions of an organism occur in the cell. A group of cell form a tissue that perform a specific functions to stop different issue combined to form an organ and different organs together form and organ system which in turn form an organism. Hence our cells are referred to as the basic structural unit of life.

Q.9 explain why chloroplasts are found only in plant cells?

Ans-chloroplast are green coloured plastids. They are green in colour due to the presence of chlorophyll in them. Chlorophyll is vital for photosynthesis as it trap solar energy and uses it to produce food for the plant.