

# The Fundamental Unit of Life

## Multiple Choice Questions

Question 1.

The basic unit of life is:

- (a) tissue
- (b) cell
- (c) both
- (d) none of them

▼ [Answer](#)

Answer: (b) cell

---

Question 2.

Who discovered the cell?

- (a) Robert Hooke
- (b) Leeuwenhoek
- (c) Robert Brown
- (d) T. Schwann

▼ [Answer](#)

Answer: (a) Robert Hooke

---

Question 3.

The cell wall of a plant cell is made up of:

- (a) glucose
- (b) fructose
- (c) protein
- (d) cellulose

▼ [Answer](#)

Answer: (d) cellulose

---

Question 4.

Which of the following controls all biological activities of a cell?

- (a) Protoplasm
- (b) Cell wall
- (c) Nucleus
- (d) All of these

▼ [Answer](#)

Answer: (c) Nucleus

---

Question 5.

Which of the following is known as the 'Power House' of a cell?

- (a) Nucleus
- (b) Golgi Bodies
- (c) Ribosome
- (d) Mitochondria

▼ [Answer](#)

Answer: (d) Mitochondria

---

Question 6.

Digestive Enzymes are found in:

- (a) Protoplasm
- (b) Cell wall
- (c) Lysosomes
- (d) Mitochondria

▼ [Answer](#)

Answer: (c) Lysosomes

---

Question 7.

Which is the longest cell of the human body?

- (a) Nerve cell
- (b) Liver cell
- (c) Kidney cell
- (d) Cardiac cell

▼ [Answer](#)

Answer: (a) Nerve cell

---

Question 8.

Which of the following cell organelles functions both as an intracellular transport system and as a manufacturing surface?

- (a) Nucleus
- (b) Mitochondria
- (c) ER
- (d) None of these

▼ [Answer](#)

Answer: (c) ER

---

Question 9.

Which of the following cell organelles help in the storage, modification, and packaging of substances manufactured in the cell?

- (a) Golgi apparatus
- (b) Nucleus
- (c) Mitochondria
- (d) Chloroplasts

▼ [Answer](#)

Answer: (a) Golgi apparatus

---

Question 10.

Who proposed the "Black Reaction"?

- (a) Benda
- (b) Camillo Golgi
- (c) Schleiden
- (d) None of them

▼ [Answer](#)

Answer: (b) Camillo Golgi

---

Question 11.

Who discovered the nucleus in the cell?

- (a) Leeuwenhoek
- (b) Robert Brown
- (c) Schleiden
- (d) Robert Hooke

▼ [Answer](#)

Answer: (b) Robert Brown

---

Question 12.

Which of the following are formed in bone marrow?

- (a) RBC
- (b) Cartilage cell
- (c) Blood platelets
- (d) Fibres

▼ [Answer](#)

Answer: (a) RBC

---

Question 13.

Which of the following can be made into crystal?

- (a) A bacterium

- (b) An amoeba
- (c) A virus
- (d) A sperm

▼ [Answer](#)

Answer: (c) A virus

---

Question 14.

Chromosomes are made up of:

- (a) DNA
- (b) Protein
- (c) DNA and protein
- (d) RNA

▼ [Answer](#)

Answer: (c) DNA and protein

---

Question 15.

Which of the following are covered by a single membrane?

- (a) Mitochondria
- (b) Vacuole
- (c) Ribosome
- (d) Plastid

▼ [Answer](#)

Answer: (b) Vacuole

---

Question 16.

Which out of the following is not a function of vacuole?

- (a) Storage
- (b) Providing turgidity and rigidity to the cell
- (c) Waste excretion
- (d) Locomotion

▼ [Answer](#)

Answer: (d) Locomotion

---

Question 17.

The cell wall of which one of these is not made up of cellulose?

- (a) Bacteria
- (b) Hydrilla
- (c) Mango tree
- (d) Cactus

▼ Answer

Answer: (a) Bacteria

---

Question 18.

Lysosome arises from:

- (a) endoplasmic reticulum
- (b) Golgi apparatus
- (c) nucleus
- (d) mitochondria

▼ Answer

Answer: (b) Golgi apparatus

---

Question 19.

The kitchen of the cell is:

- (a) mitochondria
- (b) endoplasmic reticulum
- (c) chloroplast
- (d) Golgi apparatus

▼ Answer

Answer: (c) chloroplast

---

Fill in the Blanks.

Question 20.

Every cell is surrounded by a \_\_\_\_\_

▼ Answer

Answer: cell membrane

---

Question 21.

The cell wall of a plant cell is made up of \_\_\_\_\_

▼ Answer

Answer: cellulose

---

Question 22.

A lysosome is also called \_\_\_\_\_ bag.

▼ Answer

Answer: suicidal

---

Question 23.

\_\_\_\_\_ cells contain plastids.

▼ [Answer](#)

Answer: Plant

---

Question 24.

Plants are green due to presence of \_\_\_\_\_

▼ [Answer](#)

Answer: chlorophyll

---

Question 25.

The cell has special components called \_\_\_\_\_

▼ [Answer](#)

Answer: organelles

---

Question 26.

Chromoplasts that contain chlorophyll are called \_\_\_\_\_

▼ [Answer](#)

Answer: chloroplasts

---

Question 27.

The primary function of \_\_\_\_\_ is storage.

▼ [Answer](#)

Answer: leucoplasts

---

Question 28.

The basic building units of all living organisms is \_\_\_\_\_

▼ [Answer](#)

Answer: cell

---

[True/False.](#)

Question 29.

Prokaryotic cells have no membrane-bound organelles, their chromosome is composed of only nucleic acid and they have only small ribosomes.

▼ [Answer](#)

Answer: True

---

Question 30.

The cell is a Latin word for 'a little room'.

▼ [Answer](#)

Answer: True

---

Question 31.

Vacuoles are large-sized in animal cells, while plant cells have very small vacuoles.

▼ [Answer](#)

Answer: False

---

Question 32.

The central vacuole of some plant cells may occupy 50-90% of the cell volume.

▼ [Answer](#)

Answer: True

---

Question 33.

Like the mitochondria, plastids also have their own DNA and ribosomes.

▼ [Answer](#)

Answer: True

---

Question 34.

The cell was discovered by Leeuwenhoek.

▼ [Answer](#)

Answer: False

---

[Match the Column.](#)

Question 35.

A	B
1. A method of plant breeding	(i) Protein factory
2. Mitochondria	(ii) Cell wall

3. Lysosome	(iii) Polyploidy
4. Ribosome	(iv) Powerhouse of the cell
5. Cellulose	(v) Suicidal bag

▼ [Answer](#)

Answer:

A	B
1. A method of plant breeding	(iii) Polyploidy
2. Mitochondria	(iv) Powerhouse of the cell
3. Lysosome	(v) Suicidal bag
4. Ribosome	(i) Protein factory
5. Cellulose	(ii) Cell wall

---

[Answer in one Word/Sentence.](#)

Question 36.

Who called jelly-like the substance of cell protoplasm?

▼ [Answer](#)

Answer: J.E. Purkinje

---

Question 37.

Who postulated cell theory?

▼ [Answer](#)

Answer: M. J. Schleiden and T. Schwann

---

Question 38.

What is called the 'Suicide-bag' of the cell?

▼ [Answer](#)

Answer: Lysosomes

---

Question 39.

What is the powerhouse of the cell?

▼ [Answer](#)



Answer: Mitochondria

---

Question 40.

What term was given by Robert Hooke to the walled compartments of honeycomb-like structure in a slice of cork?

▼ [Answer](#)

Answer: Cell

---

Question 41.

When was the electron microscope invented?

▼ [Answer](#)

Answer: In 1940

---

Question 42.

Who discovered the cell?

▼ [Answer](#)

Answer: Robert Hooke

---

Question 43.

Who, with the improved microscope, discovered the free-living cells in pond water for the first time?

▼ [Answer](#)

Answer: Leeuwenhoek

---

Question 44.

Who discovered the nucleus in the cell?

▼ [Answer](#)

Answer: Robert Brown

---

Question 45.

Who suggested that all cells arise from pre-existing cells?

▼ [Answer](#)

Answer: R. Virchow

---

Question 46.

In which organisms, the nucleus is separated from the cytoplasm by a double-layered membrane?

▼ [Answer](#)

Answer: In eukaryotes

---