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Cell Biology — 30 MCQs

Biology | AFNS Academic Test Preparation

1. Which organelle is known as the "powerhouse of the cell"?

- A) Ribosome
- B) Nucleus
- C) Mitochondria
- D) Golgi apparatus

✓Answer: C) Mitochondria

2. Protein synthesis takes place in which organelle?

- A) Mitochondria
- B) Ribosomes
- C) Nucleus
- D) Lysosome

✓Answer: B) Ribosomes

3. The membrane surrounding a vacuole is called the:

- A) Plasma membrane
- B) Nuclear envelope
- C) Tonoplast
- D) Cell wall

✓Answer: C) Tonoplast

4. Which organelle packages and ships proteins out of the cell?

- A) Ribosome
- B) Mitochondria
- C) Golgi apparatus
- D) Lysosome

✓Answer: C) Golgi apparatus

5. The control center of the cell is the:

- A) Mitochondria
- B) Nucleus
- C) Ribosome
- D) Vacuole

✓Answer: B) Nucleus

6. Cell wall in plants is mainly made of:

- A) Protein
- B) Lipid
- C) Cellulose
- D) Starch

✓Answer: C) Cellulose

7. Which organelle is responsible for cellular digestion?

- A) Golgi body
- B) Ribosome
- C) Lysosome
- D) Vacuole

✓Answer: C) Lysosome

8. Chloroplasts are found in:

- A) Animal cells only
- B) Plant cells only
- C) Both plant and animal cells
- D) Bacteria only

✓Answer: B) Plant cells only

9. The fluid-filled space inside the chloroplast is called the:

- A) Stroma
- B) Thylakoid
- C) Grana
- D) Matrix

✓Answer: A) Stroma

10. Which part of the cell controls what enters and exits?

- A) Cell wall
- B) Nucleus
- C) Cell membrane
- D) Vacuole

✓Answer: C) Cell membrane

11. DNA is found in the:

- A) Ribosome
- B) Mitochondria only
- C) Nucleus and mitochondria
- D) Golgi apparatus

✓Answer: C) Nucleus and mitochondria

12. The process by which cells engulf large particles is called:

- A) Pinocytosis
- B) Phagocytosis
- C) Exocytosis
- D) Osmosis

✓Answer: B) Phagocytosis

13. Which cells do NOT have a nucleus?

- A) Red blood cells (mature)
- B) White blood cells
- C) Nerve cells

D) Muscle cells

✓Answer: A) Red blood cells (mature)

14. The movement of water across a semi-permeable membrane is called:

- A) Diffusion
- B) Active transport
- C) Osmosis
- D) Endocytosis

✓Answer: C) Osmosis

15. Mitosis results in:

- A) 4 haploid cells
- B) 2 identical diploid cells
- C) 2 haploid cells
- D) 4 diploid cells

✓Answer: B) 2 identical diploid cells

16. The stage of mitosis where chromosomes line up at the center is:

- A) Prophase
- B) Anaphase
- C) Metaphase
- D) Telophase

✓Answer: C) Metaphase

17. Which of the following is NOT a function of the cell membrane?

- A) Protein synthesis
- B) Cell signaling
- C) Transport of molecules
- D) Protection

✓Answer: A) Protein synthesis

18. Meiosis produces how many daughter cells?

- A) 2
- B) 3
- C) 4
- D) 8

✓Answer: C) 4

19. The site of aerobic respiration in the cell is:

- A) Nucleus
- B) Ribosome
- C) Mitochondria
- D) Chloroplast

✓Answer: C) Mitochondria

20. What does the nuclear membrane contain that allows materials to pass?

- A) Pores

- B) Cilia
- C) Flagella
- D) Microvilli

✓Answer: A) Pores

21. The cytoskeleton of the cell provides:

- A) Energy
- B) Genetic information
- C) Shape and support
- D) Digestion

✓Answer: C) Shape and support

22. Ribosomes are composed of:

- A) DNA and protein
- B) RNA and protein
- C) Lipid and protein
- D) DNA and lipid

✓Answer: B) RNA and protein

23. Active transport requires:

- A) No energy
- B) Energy (ATP)
- C) Only water
- D) Sunlight

✓Answer: B) Energy (ATP)

24. Which of the following is a prokaryotic cell?

- A) Yeast
- B) Amoeba
- C) Bacteria
- D) Plant cell

✓Answer: C) Bacteria

25. The endoplasmic reticulum with ribosomes attached is called:

- A) Smooth ER
- B) Rough ER
- C) Golgi body
- D) Nuclear envelope

✓Answer: B) Rough ER

26. Turgor pressure in plant cells is due to:

- A) Excess protein
- B) Water entering the vacuole
- C) Cell wall breaking
- D) Loss of water

✓Answer: B) Water entering the vacuole

27. Which organelle converts light energy into chemical energy?

- A) Mitochondria
- B) Ribosome
- C) Chloroplast
- D) Nucleus

✓Answer: C) Chloroplast

28. Cell division in bacteria occurs by:

- A) Mitosis
- B) Meiosis
- C) Binary fission
- D) Budding

✓Answer: C) Binary fission

29. The jelly-like substance filling the cell is called:

- A) Nucleoplasm
- B) Cytoplasm
- C) Plasma
- D) Stroma

✓Answer: B) Cytoplasm

30. Which molecule forms the basic structure of the cell membrane?

- A) Cellulose
- B) Phospholipid bilayer
- C) Glycogen
- D) Protein

✓Answer: B) Phospholipid bilayer

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