

Multiple Choice Questions

1 Which of the following is the major advantage of using a light microscope instead of an electron microscope?

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|---------------------------------|------------------------------|
| A. Superior Resolving power | B. Constant depth of focus |
| C. observation of living matter | D. use of very thin sections |

2 Some cellular organelles are bound by a single membrane while other organelles have two membrane (envelops) around them. Which of the following is correct?

- | | Single membrane | Double membrane |
|-----|-----------------------|--------------------------|
| (A) | peroxysomes, lysosome | nucleus, chloroplast |
| (B) | chloroplast, lysosome | nucleus, peroxysomes |
| (C) | nucleus, chloroplast | lysosome, peroxysomes |
| (D) | nucleus, lysosome | chloroplast, peroxysomes |

3 Which of the following cell structures contains the highest concentration of RNA

- | | |
|----------------|--------------|
| A. Centriole | B. Lysosome |
| C. Chromosomes | D. Nucleolus |

4 A tadpole's tale is gradually broken down during metamorphosis into an adult frog. Which organelles increases in number in the cells of the tail at this time

- | | |
|------------------|--------------------------|
| A. Centriole | B. Endoplasmic reticulum |
| C. Golgi Complex | D. Lysosomes |

5 Which of the following organelles always contains DNA?

- | | |
|--------------|------------------|
| A. Centriole | B. Golgi complex |
| B. Lysosome | D. Mitochondria |

6 Which distinguishes a prokaryotic cell from eukaryotic cell?

- A. Prokaryotic cell have a cell wall and a nucleus
- B. Prokaryotic cells have no membrane bound organelles
- C. Prokaryotic cells have a centriole
- D. Prokaryotic cells have no ribosomes

7 The elasticity of the plasma membrane demonstrates that it is made up in part of

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|------------------|------------------|
| A. Lipids | B. Nucleic acids |
| C. Carbohydrates | D. Proteins |

8 Filaments present in flagella and cilia are

- | | |
|-------------------|-----------------|
| A. Microfibrils | B. Microtubules |
| C. Microfilaments | D. Microvilli |

- A. Cell membrane
C. Lysosome
- B. Nucleus
D. Vacuole

10 The cell wall of plant cell is different from that of prokaryotes in:

- A. Both structure and chemical composition
B. Structure only
C. Chemical composition only
D. number of layers only

11 Which of the following are present in prokaryotic cells

- A. Chloroplast, DNA, nuclear envelope
B. Chromosomes, mitochondria, envelope
C. Cytoplasm, DNA, mitochondria
D. Cytoplasm, DNA, ribosome

12 Which of the following is present in all eukaryotic cells:

- A. Cell wall
B. Diploid nucleus
C. Flagellum
D. Membrane bounded organelles

13 Which of the following would be more prominent in secretory cell than nonsecretory cell:

- A. Lysosome
C. Mitochondria
- B. Golgi complex
D. Ribosomes

14 When a glycoprotein is being synthesized for secretion from a cell, which route is it most likely to take?

- A. Golgi complex → RER → SER
B. RER → golgi Complex → SER
C. RER → SER → Golgi Complex
D. SER → Golgi complex → RER

15 Which of the following is responsible for cyclosis?

- A. Microtubule
C. Intermediate filamenet
- B. Microfilament
D. None of them

ANSWERS

- | | | | | |
|--------|---------|----------|---------|--------|
| (i) C | (ii) A | (iii) D | (iv) D | (v) D |
| (vi) B | (vii) A | (viii) B | (ix) A | (x) C |
| (xi) D | (xii) D | (xiii) B | (xiv) C | (xv) B |

