
APPENDIX-I: QUIZ FOR ACHIEVEMENT TEST

Instructions: Each question carries one mark. It is compulsory to attempt all questions. There will be no mark to be given on wrong answers. Tick a mark on the correct answer for each question.

1. Which plastids are colourless?

- Chromoplasts
- Chloroplasts
- Leucoplasts
- All of the above
- None of the above

2. The process in which cells lose water in a hypertonic solution

- Frontolysis
- Plasmolysis
- Acidolysis
- Allolysis
- None of the above

3. An unripe green fruit changes colour when it ripens. The reason being:

- Chromoplasts changes to chlorophyll
- Chromoplasts changes to chromosomes
- Chromosomes changes to chromoplasts
- Chloroplast changes to chromoplasts
- None of the above

4. _____ is called the powerhouse of the cell

- Mitochondria
 - ATP
-

-
- Lysosomes
 - Red blood cells
 - None of the above

5. _____ is called the energy currency of the cell

- Endoplasmic Reticulum
- Oxygen
- ATP
- Mitochondria
- None of the above

6. _____ coined the term "cell"

- Gorbachev
- Himmler
- Robert Hooke
- Anton Von Leeuwenhoek
- None of the above

7. Which of the following statements is incorrect?

- Cytoplasm is also known as protoplasm
 - Lysosomes are known as the suicide bags of the cell
 - Mitochondria has its own DNA
 - None of the above
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8. Which of the following is not a function of the vacuole in plants?

- o They store toxic metabolic wastes
- o They help with the process of cell division
- o They help to maintain turgidity
- o They provide structural support
- o None of the above

9. Where are the essential proteins and lipids required for cell membrane, manufactured?

- o Lysosomes
- o Chromosomes
- o Endoplasmic Reticulum
- o Mitochondria
- o None of the above

10. The process by which water moves through a semi-permeable membrane from a region of high concentration to a region of lower concentration thereby equalizing water concentration is called:

- o Evaporation
- o Diffusion
- o Osmosis
- o All of the above

11. Lysosomes are called suicidal bags because:

- o It causes the cell to break its cell membrane, causing death
 - o It kills the surrounding cells by releasing enzymes
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- o The enzymes are capable of digesting cells
 - o All of the above
 - o None of the above

12. Echinodermata are:

- o Spiny Skinned Organisms
- o terrestrial organisms
- o Organisms with shell
- o have biradial symmetry

13. Which among the following is a heterotrophic eukaryote?

- o **Algae**
- o **Fungi**
- o **Bacteria**
- o **Virus**

14. Which of the following are called the "Amphibians of the plant kingdom"

- o Bryophyta
 - o Pteridophyta
 - o Angiosperms
 - o Gymnosperms
 - o All the above
 - o None of the above
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15. Ulothrix, cladophora, ulva, spirogyra are the examples of:

- Thallophyta
- Bryophyta
- Pteridophyta
- Gymnosperms

16. Porifera are:

- non-motile organisms
- motile organisms
- do not have pores in their body
- do not attached to a solid support

17. Who proposed the five kingdom classification?

- Robert Whittakar
- Robert Brown
- Robert Hooke
- Robert Boyle

18. In group Pteridophyta, the plant body is differentiated into:

- stems, roots and leaves
- leaves and stem
- roots and stem
- roots and leaves

19. Which combination of tissues enables animals to move rapidly in response to stimuli and survive successfully in their environment?

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- o Epithelial and nervous
 - o Muscular and nervous
 - o Connective and muscular
 - o Epithelial and Connective

20. Which of the following is not a feature of connective tissue?

- o It has cells and matrix
- o It connects various parts of the body.
- o It shows contractile proteins i.e. actin and myosin.
- o It may be in fluid or solid state

21. How is adipose tissue helpful to eyes?

- o It provides color vision to eyes.
- o It forms shock absorbing cushion around the eyes.
- o It protects eyes from dust
- o Both B and C

22. The husk of coconut is a _____ tissue.

- o Meristematic
- o Sclerenchymatous
- o Epithelial
- o Vascular

23. Name elongated region of neuron.

- o Axon
 - o Cyton
-

o Dendrites

o Terminal branches

24. Few examples of unicellular organisms are: _____

25. Cell is a latin word that means: _____

APPENDIX-II - QUESTIONNAIRE

Instructions: There is no right or wrong answers. The learners are requested to respond in Yes, No or Can't say.

- 1. Learning biology through ICT has been fun for me**
 Yes No Can't say
 - 2. I always look forward to my biology lessons when it is ICT integrated because I enjoy them a lot.**
 Yes No Can't say
 - 3. I am interested in Biology since I was young, but it is difficult to understand some abstract concepts which has become easier through simulations and 3D Video representations**
 Yes No Can't say
 - 4. Learning Biology through ICT also aids in enhancing knowledge and skills in computer technology and how to use them in instructional process in a classroom.**
 Yes No Can't say
 - 5. Using ICT in biology class can positively contribute to the learning**
 Yes No Can't say
 - 6. Using ICT in Biology makes the classroom learning environment effective?**
 Yes No Can't say
 - 7. I find it easier to learn by using ICT**
 Yes No Can't say
 - 8. I think the quality of teaching-learning has improved by integrating ICT in the classroom.**
 Yes No Can't say
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9. The use of ICT enable us to be more active and engaging in a lesson

Yes

No

Can't say

10.I am looking forward to computer-aided learning in my classroom in future for better understanding of the subject biology

Yes

No

Can't say
