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?

0	Chromoplasts		
0	Chloroplasts		
0	Leucoplasts		
0	All of the above		
0	None of the above		
2.	The process in which cells lose water in a hypertonic solution		
0	Frontolysis		
0	Plasmolysis		
0	Acidolysis		
0	Allolysis		
0	None of the above		
3.	. An unripe green fruit changes colour when it ripens. The reason being:		
0	Chromoplasts changes to chlorophyll		
0	Chromoplasts changes to chromosomes		
0	Chromosomes changes to chromoplasts		
0	Chloroplast changes to chromoplasts		
0	None of the above		
4.	is called the powerhouse of the cell		
	o Mitochondria		
	o ATP		

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

5._____ is called the energy currency of the cell

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

6. coined the term "cell"

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

7. Which of the following statements is incorrect?

- o Cytoplasm is also known as protoplasm
- o Lysosomes are known as the suicide bags of the cell
- o Mitochondria has its own DNA
- o None of the above

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

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 Bryophyta o Pteridophyta				
o Pteridophyta				
o Pteridophyta o Angiosperms				
o Pteridophyta o Angiosperms o Gymnosperms				

15. Ulothrix, cladophora, ulva, spirogyra are the examples of:

- o Thallophyta
- o Bryophyta
- o Pteridophyta
- o Gymnosperms

16. Porifera are:

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

17. Who proposed the five kingdom classification?

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

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

- o stems, roots and leaves
- o leaves and stem
- o roots and stem
- o roots and leaves
- 19. Which combination of tissues enables animals to move rapidly in response to stimuli and survive successfully in their environment?

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					
	o Yes	o No	o Can't say			
2.	I always look forward to	ways look forward to my biology lessons when it is ICT integrated				
	because I enjoy them a lot.					
	o Yes	o No	o 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						
	simulations and 3D Video representations					
	o Yes	o No	o Can't say			
4. Learning Biology through ICT also aids in enhancing knowledge a						
	skills in computer technology and how to use them in instructional					
	process in a classroom.					
	o Yes	o No	o Can't say			
5.	5. Using ICT in biology class can positively contribute to the learning					
	o Yes	o No	o Can't say			
6.	Using ICT in Biology makes the classroom learning environment					
	effective?					
	o Yes	o No	o Can't say			
7.	. I find it easier to learn by using ICT					
	o Yes	o No	o Can't say			
8.	. I think the quality of teaching-learning has improved by integrating					
	ICT in the classroom.					
	o Yes	o No	o Can't say			

9. The use of ICT enable us to be more active and engaging in a lesson							
o Yes	o No	o Can't say					
10.I am looking forward to computer-aided learning in my classroom in future for better understanding of the subject biology							
o Yes	o No	o Can't say					