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Test / Exam Name: Fundamental Units Of Life Standard: 9th

Subject: Science

Instructions

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|-------------|--|----------------|
| Q1. | What does the term plasmolysed mean when used to describe a cell? | 2 Marks |
| Q2. | Which organelles constitutes the network of complex cellular membrane system in living cells? | 2 Marks |
| Q3. | Do you agree that “A cell is a building unit of an organism”. If yes, explain why? | 2 Marks |
| Q4. | What are centrioles? Write about their function. | 2 Marks |
| Q5. | Name the largest plant cell. | 2 Marks |
| Q6. | Which organelle is the “power plant” of eukaryotic cell. Write in brief its functions. | 2 Marks |
| Q7. | What is protoplasm? | 2 Marks |
| Q8. | What are the consequences of the following condition?
A cell containing higher water concentration than the surrounding medium. | 2 Marks |
| Q9. | Define Diffusion. | 2 Marks |
| Q10. | Which cellular organelle uses, molecular oxygen like mitochondria bit protects the cell from toxic metabolic by products? | 2 Marks |
| Q11. | From where do new cells arise? | 2 Marks |
| Q12. | Do the plant cells contain centriole? | 2 Marks |
| Q13. | How does amoeba obtain its food? | 2 Marks |
| Q14. | Name two cell organelles, which contain their own genetic material. | 2 Marks |
| Q15. | What are the genes? Where are they located in the cell? | 2 Marks |
| Q16. | brief state what happens when:
A red blood cell is kept in concentrated saline solution? | 2 Marks |
| Q17. | What is the main function of each of the following organelles?
1. | 2 Marks |
| Q18. | Cytoplasmic bridges between adjacent plant cells are called? | 2 Marks |
| Q19. | Which types of ribosomes are found in prokaryotes and eukaryotes? | 2 Marks |
| Q20. | Name the cell organelle in which following structures are present:
1. | 2 Marks |
| Q21. | brief state what happens when:
Rheo leaves are boiled in water first and then a drop of sugar syrup is put on it? | 3 Marks |

Q22.	How is bacterial cell different from onion cell?	3 Marks
Q23.	What would happen to the life of a cell, if there are no vacuoles?	3 Marks
Q24.	What will happen if: 1. Excess amount of fertilizer is	3 Marks
Q25.	What is the difference between plasma membrane and cell wall? Give the functions of each one.	3 Marks
Q26.	Differentiate between the following: Chromosome and chromatid.	3 Marks
Q27.	What is the role of nuclear pores in a cell?	3 Marks
Q28.	Describe the proteins of plasma membrane.	3 Marks
Q29.	Why is it said that 'a' cell without a nucleus is without any future?	3 Marks
Q30.	Distinguish between prokaryotic and eukaryotic cells.	3 Marks
Q31.	Write down two main functions of: 1. Endoplasmic retic	3 Marks
Q32.	Draw a neat diagram of plant cell and label any three parts which differentiate it from animal cell.	3 Marks
Q33.	Name the molecules which contribute to the flexibility exhibited by the plasma membrane.	3 Marks
Q34.	Write any two differences between prokaryotic and eukaryotic cells.	3 Marks
Q35.	Write down three basic characteristics of a cell.	3 Marks
Q36.	Write down differences between nucleus and nucleoid.	3 Marks
Q37.	Define: (i) Hypertonic solution; (ii) Hypotonic solution; (iii) Isotonic solution.	3 Marks
Q38.	Write down differences between organ and organelle.	3 Marks
Q39.	If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?	3 Marks
Q40.	Identify the site for protein synthesis in a cell.	3 Marks

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