

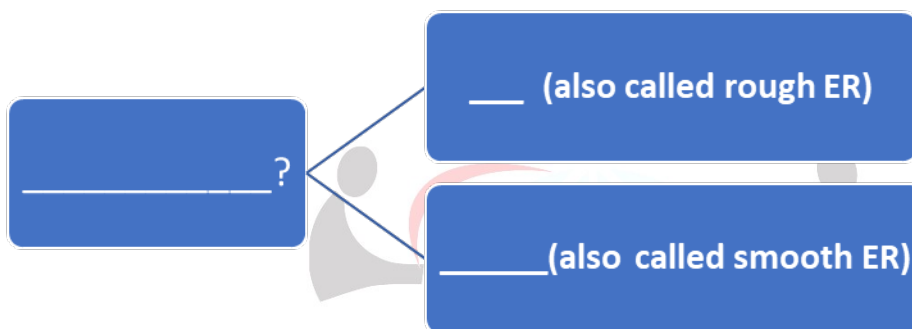
## Diagnostic Assessment

### Biology

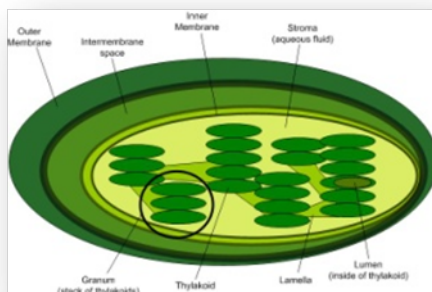
Q1. The science of describing, classifying, and naming living things is called\_\_\_\_\_.

- i) Cytology
- ii) Taxonomy
- iii) Biology
- iv) Histology

Q2. Complete the blanks in the chart below by choosing the appropriate names from the brackets.  
(Granular, Golgi Bodies, Endoplasmic Reticulum)



Q3. Which of these cell organelles is the given cross section of?



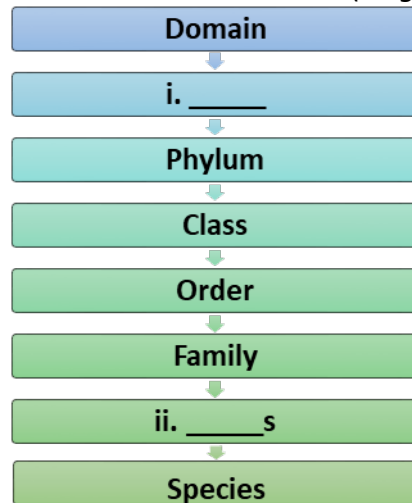
- i) Chloroplast, helps in Cellular respiration
- ii) Mitochondria, helps in Cellular respiration
- iii) Chloroplast , helps in Photosynthesis
- iv) Lysosome, helps in digestion

Q4. Which alternative form of gene is located at a specific position on a specific position on a specific chromosome?

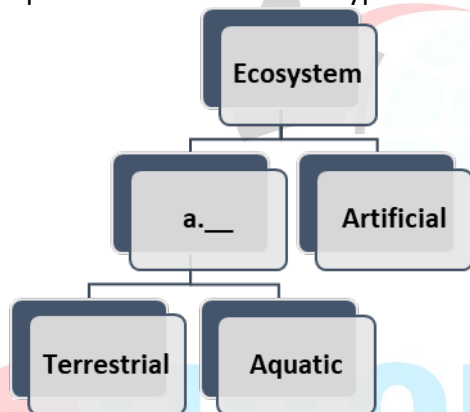
- i) Nucleus
- ii) Genes
- iii) Alleles
- iv) All of the above

Q5. In \_\_\_\_\_ (*mitosis* or *meiosis*) two daughter cells are produced and have identical chromosomes to the parent cell.

Q 6. Complete the given classification level chart- (Kingdom, Taxon, Animalia, Genus, Genetics)



Q7. Complete the chart to show types of Ecosystem.



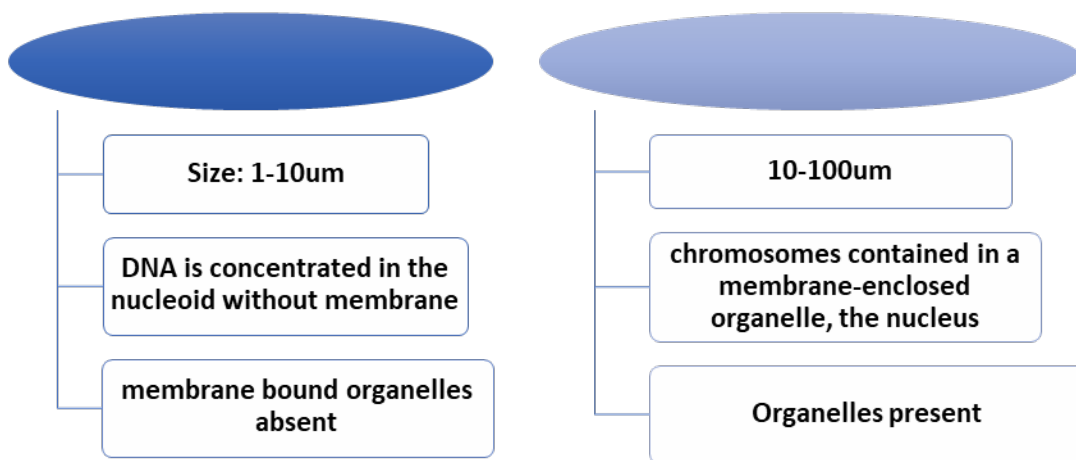
Q8. Which of these naturally occurring compounds do not contain all 3 - carbon, hydrogen and oxygen?

- i. Carbohydrates
- ii. Chloroform
- iii. Sugars
- iv. Proteins

Q9. \_\_\_\_\_ is a key mechanism of evolution. It is the changes in the heritable traits characteristics of a population.

- i) Evolution
- ii) Species
- iii) Population
- iv) Natural selection

Q11. Fill in the blanks to best define the given features- (*Eukaryotes, Prokaryotes*)



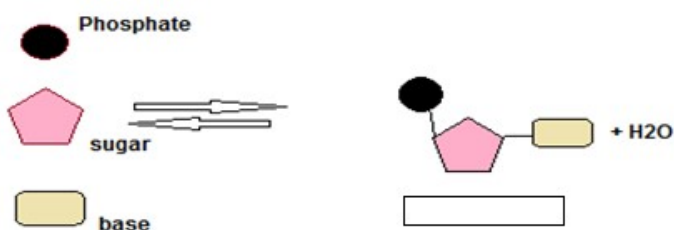
Q12. Which of the following is not a stage in Cellular respiration?

- i) Glycolysis
- ii) Krebs Cycle
- iii) Electron Transport Chain
- iv) Light reaction

Q13. The chromosome is made up of fibrous material called \_\_\_\_\_ (*euchromatin, chromatin*) which is a complex of proteins and DNA.

Q14. Biodiversity refers to the variety of life that can be found on Earth. *True/False*

Q15. Identify as Nucleoside or Nucleotide



**Answers-**

- Q1. iii . Taxonomy is the science of describing, classifying, and naming living things .
- Q2. Endoplasmic reticulum is of two types granular ,also called rough ER and agranular,also known as smooth ER.
- Q3.iii . An organelle is Chloroplast which helps in Photosynthesis. This occurs in plants.
- Q4. i) Kingdom ii) Genus
- Q5. Natural –there are two main types of ecosystem – Natural and artificial
- Q6. False. Homeostasis is the ability to maintain a constant internal environment in response to environmental changes
- Q7. iii
- Q8. Mitosis. It is also called Equational division because daughter cells produced have identical chromosomes to the parent cell
- Q9. Carbohydrate. It is a type of biomolecule that is made up of carbon, hydrogen and oxygen and provides instant energy.
- Q10. iv
- Q11. Dark circle is prokaryotes and light one represents Eukaryotes
- Q12. iv. Light reaction occurs in Photosynthesis.
- Q13. Chromatin. The chromosome is made up of fibrous material called chromatin which is a complex of proteins and DNA.
- Q14. True
- Q15. Nucleotide. It is made up of one Base, one Phosphate group and sugar molecules

