



## ST. JOSEPH'S COLLEGE, PRAYAGRAJ

FIRST UNIT TEST- MAY 2024

CLASS - IX

Time: 1½ Hrs

SUBJECT- BIOLOGY

Max. Marks: 30

Q1. Choose the correct answer from the options given below:

[6]

- The barrier between the protoplasm and the outer environment in an animal cell is
  - Nuclear membrane
  - Plasma membrane
  - Tonoplast
  - Cell wall
- The site of protein synthesis in a cell.
  - Centrosome
  - Lysosome
  - Ribosome
  - Dictyosomes
- The organelle that is covered by tonoplast.
  - Plastid
  - Ribosome
  - Nucleus
  - vacuole
- It forms the supporting framework of the cell.
  - Lysosome
  - Endoplasmic Reticulum
  - Golgi apparatus
  - Plastid
- It is responsible for the formation of acrosome.
  - Golgi Apparatus
  - Plastid
  - Vacuole
  - Granules
- The organelle responsible for the formation of spindle fibres during cell division.
  - Centrosome
  - Ribosome
  - Lysosome
  - Dictyosomes

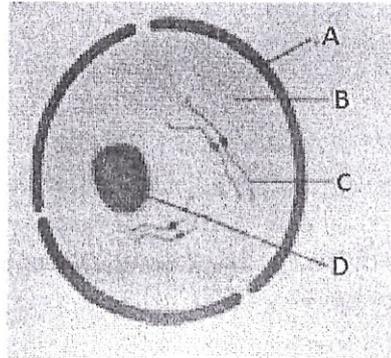
Q2. Answer the questions briefly:

[6x2=12]

- Which organelle is called suicidal bags? Give reason.
- Name the colouring pigments present in Chromoplast. Also mention the pigment found in cell sap.
- Give difference between cisternae and cristae.
- What are cell inclusions? Where are their functions?
- Differentiate between Prokaryotic cell and eukaryotic cell on the basis of
  - DNA
  - Nucleus
- Answer the following
  - Cells are small in size. Give reason.
  - Shape and Size of cell depend upon its function. Justify.

Q3. Study the diagram and answer the following questions:

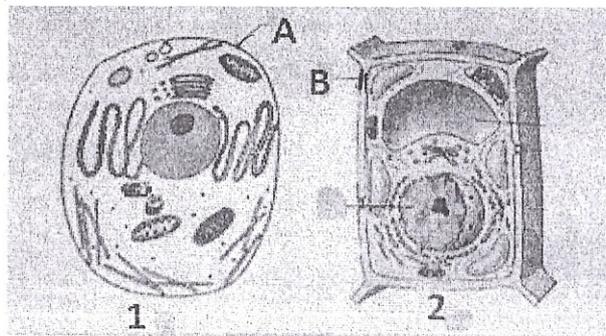
[3]



- i) Label part A, B, C and D.
- ii) State the function of part C and D.

Q4. Identify the Cell 1 and 2.

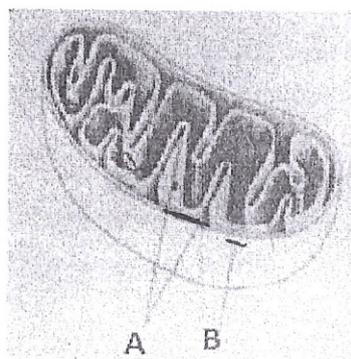
[3]



Differentiate between parts labelled in the diagram as A and B giving two points of difference.

Q5. Given below is the diagram of mitochondria. Study the diagram and answer the questions that follow:

[3]



- i) Label the membranes A and B.
- ii) Give the other popular name for this structure.
- iii) Name the energy currency formed by it. Write its full form.

Q6. Draw a well labelled diagram of a bacterial cell.

[3]

\*\*\*\*\* ALL THE BEST \*\*\*\*\*