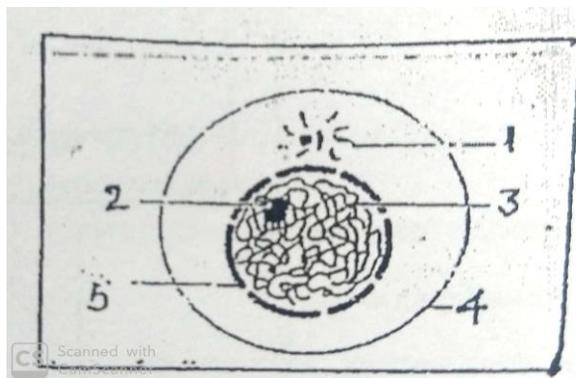


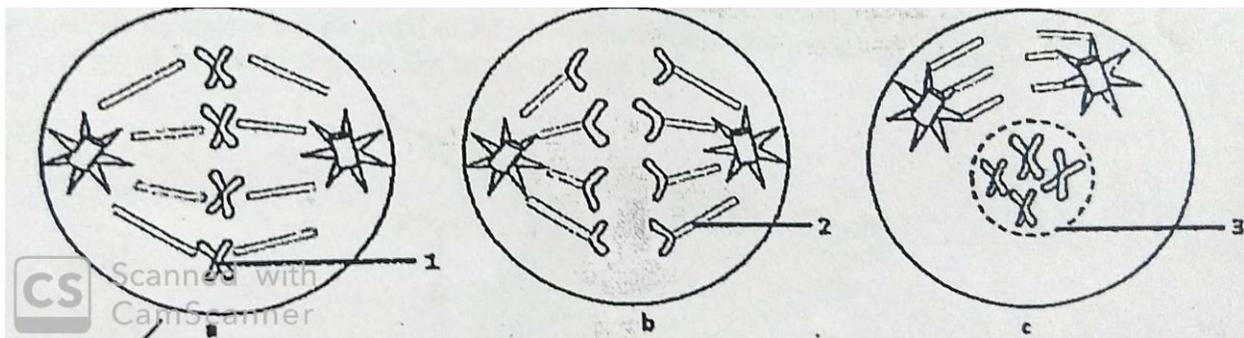
Biology
Chapter - Cell Division
Worksheet No. 1

- I. State whether the following statements are true or false:-
- i) Meiosis leads to recombination of character.
 - ii) Germ cells divide meiotically to produce gametes.
 - iii) Mitosis results in four daughter cells.
 - iv) Somatic cells of multicellular organisms arise from a single cell by meiosis.
 - v) Mitosis is the type of cell division occurring in the cells of injured parts of the body.
- II. Give the biological term for the following:-
- i) The stage in mitosis when the nucleolus starts disappearing.
 - ii) Division of nucleus.
 - iii) The phase of cell cycle during which the cell grows.
 - iv) The phase of the cell cycle in which DNA replication takes place.
 - v) The stage at which chromosomes reach the opposite poles.
 - vi) The shortest phase of mitosis.
- III. Draw a well-labelled diagram to show the anaphase stage of mitosis in a plant cell having Four chromosomes.
- IV. i) Draw a neat labelled diagram to show the metaphase stage of mitosis in animal cell Having '6' chromosomes.
- ii) How many daughters cells are formed at the end of meiosis?
- iii) With reference to cell division explain the following terms:
1. Chromatid
 2. Centromere
 3. Haploid
- iv) Name the type cell division that occurs during:-
- i) Growth of shoot
 - ii) Formation of pollen grain
 - iii) Repair of worn-out tissues
- V. The figure shown below is of a cell. Study the figure and answer the following questions:-



- i) Identify the stage of the cell cycle.
- ii) Label the parts 1,2,3,4 and 5.
- iii) Write any two characteristics of this phase.

VI. Stages of cell division are given below. Study the diagram and answer the questions that follow:-



- i) Identify the stages of cell division a, b and c.
- ii) Arrange the stages in the correct sequence using the alphabets given under them.
- iii) How many daughter cells are formed during this type of cell division?
- iv) Name the parts labelled 1, 2 and 3.
- v) Write the names of anyone pair of compatible nitrogenous bases found in the DNA molecule.