

TEST PAPER: BIOLOGY

Time: 45 Minutes Class: ICSE 10

Max. Marks: 30 Marks Date: 11th July 2018

<u>Marking Scheme:</u> Three questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

A	4
LINESTIAN	
Question	

- A. Define.
 - 1. Centromere
- 2. Aster
- 3. Nucleosome
- B. Differentiate the following by giving two differences each:
 - Anaphase & metaphase.
 - 2. G1 & G2 phases.
 - 3. Mitosis & meiosis.
- C. Name the following.
 - 1. Four nitrogenous bases that form 'rungs of DNA ladder'.
 - 2. DNA synthesis phase of a cell.
 - 3. Specific sequences of neucleotides on a chromosomes.
 - 4. The phase in which chromosomes are attached to spindle fibers.
 - 5. Genetic recombination of between homologous cromosomes.

Question 2:

- **A.** Fill in the blanks:
 - 1. occurs in gametes reproduction.
 - 2. The separation of chromatids takes place in ______.
 - 3. DNA is made up of , &
 - 4. _____ are particular type of proteins present in chromosomes.
- **B.** Explain the following:
 - 1. What is karyokinesis & cytokinesis?
 - 2. Explain different ways of cytokinesis in different organisms.
- **C.** Describe the following:
 - 1. Why division of cells is necessary.
 - 2. Significance of meiosis.

Question 3:

- A. State true or false. Correct rewrite and the false ones.
 - 1. Chromosomes are visible during last stage of interphase.
 - 2. Granules in a cell help in forming spindle fibers.
 - 3. Chromosomes duplicate in early prophase
- B. Give Reasons
 - 1. Chromosome number gets halved in meiosis.
 - 2. Children of same parents are different from each other.
 - 3. Brain cells are not replaced.
- C. Answer the following:
 - 1. Name these phases of mitosis.
 - 2. Describe what happens in first mitotic phase





(b)



(d

