



BIOLOGY

BOOKS - TRUEMAN BOOK COMPANY BIOLOGY (HINGLISH)

NCERT Exemplar Questions +1 (CELL CYCLE AND CELL DIVISION)



1. Meiosis in diploid organisms results in

A. production of gametes

B. reduction in the number of

chromosomes

C. introduction of variation

D. all of the above

Answer: d

2. At which stage of meiosis does the genetic constitution of gametes is finally decided?

A. Metaphase I

B. Anaphase II

C. Metaphase II

D. Anaphase I

Answer: da

3. Meiosis occurs in organisms during

A. Sexual reproduction

- B. Vegetative reproduction
- C. Both sexual and vegetative reproduc-

tion

D. None of the above

Answer: a

4. During anaphase I of meiosis

A. homologous chromosomes separate

B. non-homologous autosomes separate

C. sister chromatids separate

D. non-sister chromatids separate

Answer: a

5. Mitosis is characterised by

A. reduction division

B. equal division

C. both reduction and equal division

D. none of the above

Answer: c

6. A bivalent of meiosis i consists of

A. two chromatids and one centromere

- B. two chromatids and two centromere
- C. four chromatids and two centromere
- D. four chromatids and four centromere

Answer: c

7. Cells which are not dividing are likely to be

at

A. G_1

 $\mathsf{B.}\,G_2$

 $\mathsf{C}.\,G_0$

D. S phase

Answer: d

8. Which of the events listed below is not

observed ruing mitosis?

A. Chromatin condensation

B. Movement of centrioles to opposite

poles

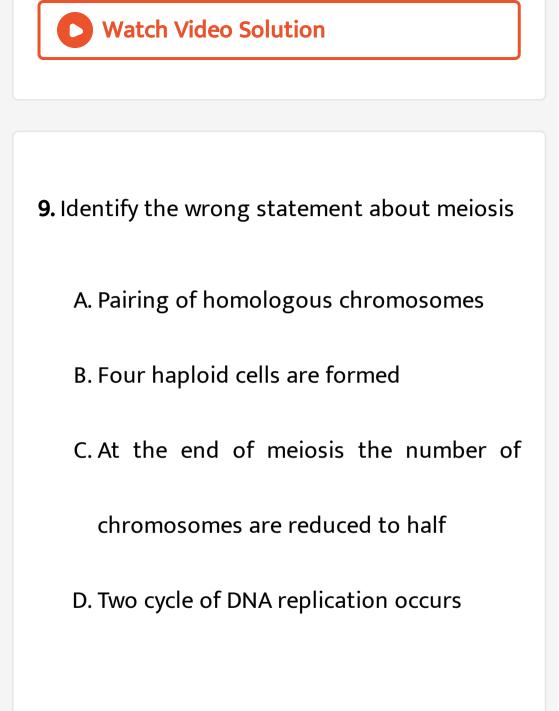
C. Appearance of chromosomes with two

chromatids joined together at the cen-

tromere

D. Crossing over

Answer: d



Answer: c





10. Select the correct statement about G 1 phase

A. Cell is metabolically inactive

B. DNA in the cell does not replicate

C. It is not a phase of synthesis of macro-

mo lecu le s

D. Cell stops growing

Answer: b

