



# BIOLOGY

## BOOKS - TRUEMAN BIOLOGY

### AIPMT-2014 (CYTOLOGY)

**Mcqs**

1. In 'S' phase of the cell cycle

- A. Amount of DNA is reduced to half in each cell
- B. Amount of DNA doubles in each cell
- C. Amount of DNA remains same in each cell
- D. Chromosome number is increased

**Answer:**



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2. Which one of the following is a non-reducing carbohydrates ?

A. Ribose 5-phosphate

B. Maltose

C. Sucrose

D. Lactose

**Answer:**



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3. The genetic material of Tobacco mosaic virus is

A. RNA

B. DNA

C. Protein

D. Both RNA and DNA

**Answer:**



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4. Select the option which is not correct with respect to the enzyme action.

A. Malonate is a competitive inhibitor of succinic dehydrogenase

B. Substrate binds with enzyme at its active site

C. Addition of lot of succinate does not reverse the inhibition of succinic dehydrogenase by malonate

D. A non-competitive inhibitor binds the enzyme at a site distinct from that which binds the substrate

**Answer:**



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5. During which phase(s) of cell cycle, amount of DNA in a cell remains at  $4C$  level if the initial amount is denoted as  $2C$ ?

A.  $G_2$  and M

B.  $G_0$  and  $G_1$

C.  $G_1$  and S

D. Only  $G_2$

**Answer:**



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**6. The motile bacteris are able to move by**

A. pili

B. fimbriae

C. flagella

D. cilia

**Answer:**



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7. The enzyme recombinase is required at which stage of meiosis

A. Diakinesis



B. Pachytene

C. Zygotene

D. Diplotene

**Answer:**



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**8.** The solid linear cytoskeletal elements having a diameter of 6 nm and made up of single type of monomer are known as .

A. Lamins

B. Microtubules

C. Microfilaments

D. Intermediate filaments

**Answer:**



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**9.** Which one of the following plant hormone (phytohormone) is known as a stress hormone?

A. Indole acetic acid

B. Abscissic acid

C. Ethylene

D.  $GA_3$

**Answer:**



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