

BIOLOGY

1. Which of the following protozoans live in guts of termites and help them to digest cellulose?
A) Plasmodium B) Amoeba proteus C) Trichonympha D) Trypanosoma

2. The function of centromere is to
A) move the chromosomes B) divide the centrosomes C) form nuclear spindle D) form spindle fibers

3. An embryo sac in higher plants at maturity has
A) 4 nuclei B) 7 nuclei C) 8 nuclei D) one nucleus

4. Gene assort independently from one another. How many genotype can be produced if the number of heterozygous gene pairs is four?
A) 4 B) 8 C) 81 D) 64

5. Which deficiency in humans causes Alzheimer's disease?
A) GABA B) Dopamine C) Acetylcholine D) Glutamic acid

6. In Lineweaver-Burk plot, the Y intercept represents
A) V_{\max} B) K_m C) $1/V_{\max}$ D) $1/K_M$

7. Which one of the following doesn't play any role in photosynthesis?
A) Phycocyanin B) Xanthophylls C) Phycoerythrin D) Anthocyanin

8. Fertilizin is a chemical substance produced from
A) mature eggs B) acrosome C) polar bodies D) middle piece of sperm

9. Introduction of DNA into the bacteria by exposing the cells to millisecond jolts of tens of thousands of volts is
A) electrofusion B) electrofission C) electrolysis D) electroporation

10. Which of the following is not a functional unit of ecosystem?
A) Productivity B) Energy flow C) Stratification D) Decomposition