

**VITEEE - 2018 - SAMPLE QUESTIONS**

**BIOLOGY**

- 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*
- The function of centromere is to  
A) move the chromosomes    B) divide the centrosomes    C) form nuclear spindle    D) form spindle fibers
- An embryo sac in higher plants at maturity has  
A) 4 nuclei    B) 7 nuclei    C) 8 nuclei    D) one nucleus
- 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
- Which deficiency in humans causes Alzheimer's disease?  
A) GABA    B) Dopamine    C) Acetylcholine    D) Glutamic acid
- In Lineweaver-Burk plot, the Y intercept represents  
A)  $V_{max}$     B)  $K_m$     C)  $1/V_{max}$     D)  $1/K_m$
- Which one of the following doesn't play any role in photosynthesis?  
A) Phycocyanin    B) Xanthophylls    C) Phycoerythrin    D) Anthocyanin
- Fertilizin is a chemical substance produced from  
A) mature eggs    B) acrosome    C) polar bodies    D) middle piece of sperm
- Introduction of DNA into the bacteria by exposing the cells to millisecond jolts of tens of thousands of volts is  
A) electro fusion    B) electro fission    C) electrolysis    D) electroporation
- Which of the following is not a functional unit of ecosystem?  
A) Productivity    B) Energy flow    C) Stratification    D) Decomposition