VITEEE
Sample Questions

Biology

Q.No. **BIOLOGY**

1. Chlorophyceae, Phaeophyceae and Rhodophyceae belong to
   A) algae B) angiosperms C) gymnosperms D) pteridophytes

2. MTOC (Microtubule Organizing Centre) is not found in
   A) centrosome B) the poles of the mitotic spindle C) the basal body of a cilium D) the bacterial flagellum

3. Which one of the following is not a part of fallopian tube?
   A) Isthmus B) Fundus C) Infundibulum D) Ampulla

4. In garden peas, height is determined by a single gene with tall being dominant to short. If two heterozygous plants are crossed, what proportion of the tall progeny will be homozygous dominant?
   A) 3/4 B) 1/2 C) 2/3 D) 1/3

5. Which pair is not correctly matched?
   A) Dengue fever - Flavivirus B) Plague - *Yersinia pestis* C) Sleeping sickness - *Trypanosoma gambiense*
   D) Syphilis - *Trichuris trichiura*

6. In oxidative phosphorylation which one of the following four complexes is not a part of the electron transport chain?
   A) NADH : CoQ reductase B) Succinate dehydrogenase C) Cytochrome c oxidase D) ATP synthase

7. What is the first electron acceptor in photosystem I?
   A) Cytochrome B) Iron-sulphur protein C) Plastocyanin D) Ferredoxin

8. In urinary system, blood plasma is filtered in
   A) renal corpuscle B) proximal convoluted tubule C) loop of Henle D) distal tubule

9. Green Fluorescent Protein (GFP), an auto-fluorescent protein is commonly used as a tag in fusion proteins. Identify the amino acid sequence responsible for its auto-fluorescence property.
   A) Ser-Tyr-Gly B) Ser-Trp-Phe C) Lys-Tyr-Gly D) Lys-Trp-Phe

10. The two gases making highest relative contribution to the greenhouse effect are
    A) CFC and N_2O B) CO_2 and N_2O C) CO_2 and CH_4 D) CH_4 and N_2O