Question 1: Which one of the following human cells do not contain mitochondria?

(A) Nerve cell  
(B) Red blood cell  
(C) Liver cell  
(D) White blood cell

Answer: (B)

Question 2: Which of the following is related to humoral immunity?

(A) T-lymphocyte  
(B) B-lymphocyte  
(C) I-lymphocyte  
(D) P-lymphocyte

Answer: (B)

Question 3: Which of the following species is restricted to a specific area?

(A) Sibling species  
(B) Allopatric species  
(C) Sympatric species  
(D) Endemic species

Answer: (D)

Question 4: Which of the following prevents the conversion of prothrombin to thrombin in an undamaged blood vessel?

(A) Calcium ions  
(B) Thromboplastin  
(C) Fibrinogen  
(D) Heparin

Answer: (D)

Question 5: Which one of the following is a unicellular, nonmotile desmid?

(A) Clostridium  
(B) Chlorobium  
(C) Cosmarium  
(D) Chromatium

Answer: (C)

Question 6: Which one of the following is a driving force for the process of ‘passive absorption of water in roots’?
(A) Root pressure
(B) The increase in imbibitional pressure in root cells.
(C) Transpiration in leaves
(D) Activity of aquaporins

Answer: (C)

**Question 7**: Which one of the following immunoglobulins is found as pentamer?
(A) IgG
(B) IgM
(C) IgA
(D) IgE

Answer: (B)

**Question 8**: Which one of the following diseases is caused by Nosema bombycis in mulberry silkworm?
(A) Pebrine
(B) Muscadine
(C) Flacherie
(D) Grasserie

Answer: (A)

**Question 9**: Which one of the following cells is not a phagocytic cell?
(A) Macrophage
(B) Monocyte
(C) Neutrophil
(D) Basophil

Answer: (D)

**Question 10**: Which one of the following bacterium is used for production of transgenic plants
(A) Escherichia coli
(B) Bacillus thuringiensis
(C) Staphylococcus aureus
(D) Agrobacterium tumefaciens

Answer: (D)

**Question 11**: Which one of the following animal phyla does not possess a coelom?
(A) Platyhelminthes
(B) Annelida
(C) Mollusca
(D) Echinodermata

Answer: (A)

**Question 12**: Which one is imino acid?
(A) Pepsin
(B) Proline
(C) Cysteine
(D) Renin

Answer: (B)

**Question 13**: Which of the following would be in insignificant amount in xylem sap?
(A) Nitrates
(B) Phosphates
(C) Water
(D) Sugar

Answer: (D)

**Question 14**: Which of the following substances can cure Parkinson's disease?
(A) GABA
(B) Acetylcholine
(C) Dopamine
(D) Glutamic acid

Answer: (C)

**Question 15**: Which of the following is the correct pathway for propagation of cardiac impulse?
(A) SA node → AV node → Bundle of His → Purkinje fibers
(B) AV node → Bundle of His → SA node → Purkinje fibers
(C) SA node → Purkinje fibers → AV node → Bundle of His
(D) Purkinje fibers → AV node → SA node → Bundle of His

Answer: (A)