

## Biology Model Question Paper - 3

**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)