

**TEST – 9 (Textbook)**  
**( INSTA Prelims Test Series 2021 )**

**1. Consider the following statements.**

1. Prokaryotes and unicellular organisms reproduce asexually by cell division or binary fission of the parent cell.
2. Zoospores are used in asexual reproduction in species like Fungi.
3. Zoospores are mobile wall-less cells which cannot divide or absorb organic nutrients.
4. Buds and gemmules are structures that hinder asexual reproduction in microbial organisms.

Select the correct answer using the codes below.

- A. 1 and 2 only      B. 1, 2 and 3 only      C. 3 and 4 only      D. 1, 2, 3 and 4

**2. In plants, which of the following parts is/are able to give rise to offspring via vegetative propagation?**

1. Rhizome      2. Tuber      3. Bulb

Select the correct answer using the codes below.

- A. 1 and 2 only      B. 1 only      C. 3 only      D. 1, 2 and 3

**3. Consider the following statements.**

1. While oestrus reproductive cycles are observed in primate mammals, menstrual cycle is observed in non-primate mammals.
2. All mammals are seasonal breeders.
3. Cows and sheep are non-primate mammals.

Select the correct answer using the codes below.

- A. 1 only      B. 2 and 3 only      C. 3 only      D. 1, 2 and 3

**4. Which of the following plants undergo self-fertilization?**

1. Peas      2. Orchids      3. Sunflower      4. Tridax

Select the correct answer using the codes below.

- A. 1 only      B. 2, 3 and 4 only      C. 3 only      D. 1, 2, 3 and 4

**5. Which of the following is/are water pollinated plants, or examples of plants that are pollinated by the medium of water?**

1. Water Hyacinth      2. Water Lily      3. Hydrilla      4. Zostera (Marine-grass)

Select the correct answer using the codes below.

- A. 4 only      B. 1 and 2 only      C. 1, 2 and 4 only      D. 3 and 4 only

**6. False fruit is a fruit in which some of the flesh is not derived from the ovary, but from some adjacent tissue exterior to the carpel. Examples of false fruits are**

1. Apple      2. Mango      3. Cashew      4. Strawberry      5. Lemon

Select the correct answer using the codes below.

- A. 1, 3 and 4 only      B. 3, 4 and 5 only      C. 1, 2 and 5 only      D. 1, 2, 3, 4 and 5

**7. In the context of archaeological and biological discoveries, *Lupinus arcticus* and *Phoenix dactylifera* are**

- A. Oldest known species of platypus found in Palaeolithic Western India
- B. Very old seeds which remained alive even after thousands of years of dormancy
- C. Earliest known mammals in the Indian subcontinent other than Homo Erectus and Homo Sapiens
- D. None of the above

**8. A phenomenon called Apomixis is found in some angiosperms, particularly in grasses. It results in**

- A. the formation of seeds without fertilisation
- B. pollination without vectors
- C. Occurrence of more than one embryo in a seed
- D. reduced need for water as the plant starts getting older

**9. Which of the following fertility techniques is/are associated with evaluation of embryo transfer or improving fertility chances in general?**

1. Magnetic activated cell sorting (MACS)      2. Endometrial Receptivity Analysis Testing (ERA)
3. Pre-implantation Genetic Testing (PGT)

Select the correct answer using the codes below.

- A. 3 only      B. 1 and 2 only      C. 1, 2 and 3      D. 2 and 3 only

**10. Which of the following diseases is/are caused mainly due to Chromosomal disorders?**

1. Haemophilia      2. Sickle-Cell Anaemia      3. Down's Syndrome      4. Thalassemia

Select the correct answer using the codes below.

- A. 1, 2 and 4 only      B. 3 only      C. 3 and 4 only      D. 1, 2, 3 and 4