

**O. P. JINDAL SCHOOL, SAVITRI NAGAR**  
**Periodic Test - I (Round-I) 2024-2025**

**Class: XII**

**MIM: 20**

**Subject: Biology**

**Time: 01 Hr.**

**General Instructions:**

- *Question paper contains 03 Sections (Section – A, Section – B, Section – C)*
- *Section A – Multiple Choice Questions (MCQ's) carries 01 mark each.*
- *Section B – Very Short Answer Type Questions carries 02 marks each.*
- *Section C – Short Answer Type Questions carries 03 marks each.*

**Section – A**

- Q1. The phenomenon where, the ovary develops into a fruit without fertilisation is called
- (a) parthenocarp (b) apomixis  
(c) asexual reproduction (d) sexual reproduction
- Q2. Embryo sac is to ovule as \_\_\_\_\_ is to an anther
- (a) stamen (b) filament  
(b) pollen grain (d) androecium
- Q3. Triploid tissue in angiosperms is
- (a) nucellus (b) endosperm  
(c) endothecium (d) tapetum
- Q4. Endospermic seeds are found in
- (a) castor (b) barley  
(c) coconut (d) all of these
- Q5. Polyembryony commonly occurs in
- (a) banana (b) tomato  
(c) potato (d) citrus
- Q6. Both chasogamous and cleistogamous flowers are present in
- (a) Helianthus (b) Commelina  
(c) Rosa (d) Gossypium

**Section – B**

- Q7. State any two differences between microsporogenesis and megasporogenesis .
- Q8. What is filiform apparatus ? What is its function.
- Q9. Banana is a true fruit and also a parthenocarpic fruit. Justify.
- Q10. Draw a well labelled diagram of T.S. of mature anther of an angiospermic flower.

Or

Where is sporopollenin present in plants? State its significance with reference to its chemical nature.

Section – C

Q11. In angiosperms, zygote is diploid while primary endosperm cell is triploid. Explain..

Or

Explain the characteristic features of wind pollinated flowers. How are insect pollinated flowers different from them.

Q12. What are chasmogamous flowers ? Can cross- pollination occur in cleistogamous flowers ?  
Give reason for your answer.

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