



INDIAN SCHOOL MUSCAT

FIRST PERIODIC TEST

BIOLOGY

CLASS: XII

Sub. Code: 044

Time Allotted: 50 mts.

24.04.2022

Max. Marks: 20

GENERAL INSTRUCTIONS:

- There are three sections in the question paper. Sections A, B and C.
- Section A has 2 questions of 1 mark each. Section B has 3 questions of 2 marks each. Section C has 4 questions of 3 marks each.
- All questions are compulsory.
- Draw and label only the asked diagram using pencil.

SECTION A

1. How do pollen grains of Vallisnaria protect themselves? 1
2. Name the part of the flower which the tassels or the corn cob represent. 1

SECTION B

3. Identify the organic materials with which the exine and intine of an angiosperm pollen grains are made up of. Explain the role of exine. 2
4. Draw the diagram of a mature pollen grain and label any 4 parts. 2
5. Differentiate between albuminous and non-albuminous seeds, giving one example each. 2

SECTION C

6. Describe the development of endosperm after double fertilization in an angiosperm. 3
Why does endosperm development precedes embryo development?

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| 7. List out three out breeding devices employed by angiosperms. | 3 |
| 8. Differentiate between the three types of pollination in angiosperms. | 3 |
| 9. Explain double fertilization in flowering plants. | 3 |

End of the Question Paper



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SECTION A

1. Write the characteristics of pollen grain of wind pollinated flowers? 1
2. Name the part of the flower which the tassels or the corn cob represent. 1

SECTION B

3. What are Cleistogamous flowers? Give one example. 2
4. Draw the diagram of a mature embryo sac and label any 4 parts. 2
5. Differentiate between albuminous and non albuminous seeds, giving one example each. 2

SECTION C

6. Describe the development of embryo after double fertilization in an angiosperm. Define perisperm with one example. 3
7. List out three out breeding devices employed by angiosperms. 3

8. What are parthenocarpic fruits? Differentiate between true fruits and false fruits with one example. 3
9. Explain double fertilization in angiosperms. 3

End of the Question Paper

ROLL NUMBER

SET

C



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SECTION A

1. How do pollen grains of Vallisnaria protect themselves? 1
2. Define Apomixis. 1

SECTION B

3. Define Pollen Pistil interaction. 2
4. Differentiate between albuminous and non-albuminous seeds, giving one example each. 2
5. Draw the diagram of a typical anatropous ovule and label any 4 parts. 2

SECTION C

6. Explain double fertilization in angiosperms. 3
7. Differentiate between the three types of pollination in angiosperms. 3

8. List out the three out breeding devices employed by angiosperms. 3
9. Describe the development of pollen grain inside the microsporangia. Name the inner most wall layer of microsporangium and write its function. 3

End of the Question Paper