

KOMARASAMY GOUNDER MAT.HR.SEC.SCHOOL - VETTAYAMPLAYAM

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UNIT TEST : 1

XII - STANDARD ENGLISH MEDIUM

BOTANY(Portion unit :1) DATE :27.06.22

TIME : 1.30 HOURS

MAXIMUM MARKS : 50

PART - A

1.CHOOSE THE CORRECT ANSWER :

10 X 1 = 10

- In which layer of anther wall is short lived
 - Epidermis
 - Endothecium
 - Middle layer
 - Tapetum
- In Majority of plants pollen is liberated at
 - 1 celled stage
 - 2 celled stage
 - 3 celled stage
 - 4 celled stage
- Find the correct example of Epihydrophyly
 - Valisneria
 - Zostera
 - Ceretophyllum
 - Maize
- A plant called X possesses small flower with reduced perianth and versatile anther.the probable agent for pollination would be
 - Water
 - Air
 - Butterflies
 - Beetles
- Find the mis-matched pair :
 - Salvia - Lever mechanism
 - Aristolochia - Trap mechanism
 - Papilionaceae - Translator mechanism
 - Asclepiadaceae - Clip mechanism.
- Which of the following represent megagametophytes
 - Ovule
 - Embryosac
 - Nucellus
 - Endosperm
- Which of the following is not a endospermous seed.
 - Wheat
 - Mango
 - Maize
 - Sunflower
- Arrangement of anther wall from locus to periphery
 - Epidermis ,Middle layer , tapetum,endothecium
 - Tapetum , Middle layer , Epidermis , Endothecium

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c) Endothecium , Epidermis , Middle layer , Tapetum

d) Tapetum , Middle layer,Endothecium ,epidermis

9. An example of cleavage polyembryony.

a) Aristolochia

b) Ulmus

c) Balanophora

d) Orchids

10. An Eminent Indian embryologist is

a) S.R.Kashyap

b) P. Maheshwari

c) M.S.Swaminathan

d) K.C.Mehta.

PART - B

II ANSWER ANY "SIX" OF THE FOLLOWING :

6 X 2 = 12

11. What is Archesporium ?

12. What is Tetrasporic and give an example?

13. What is Phalaenophily ?

14. Draw the structure of Amphitropous Ovule.

15. Define - Herkogamy.

16. A detached leaf of Bryophyllum produces new plant. How?

17. Pollination in Gymnosperm is differ from Angiosperm. Give reasons.

18. Write a note on Pollenkitt.

PART - C

II ANSWER ANY "SIX" OF THE FOLLOWING :

6 X 3 = 18

QUESTION NUMBER "23" IS COMPULSORY.

19. List out the functions of tapetum.

20. Write the characteristic feature of wind pollinated flowers.

21. Explain the different type of pollen entry with the help of its diagram.

22. To tabulate the post fertilization structure and events of the following.

i. Ovary

ii. Ovule

iii. Nucellus

iv. Secondary nucleus

23. Draw the structure of ovule and label the parts.

24. Write the significance of Parthenocarpy.

25. What is Polyembryony. How it can commercially exploited.

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26. "Endothecium associated with dehiscence of anther". Justify the statement.

PART - D

IV.ANSWER THE FOLLOWING :

2 X 5 = 10

27. Describe the structure of Monocot seed.

Or

What is Endosperm.Explain the types.

28. Describe the development of Monosporic embryosac.

Or

Describe Grafting.

