

Model Question paper
Plant Morphology(B) 3

11th Standard

Biology

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 55

10 x 1 = 10

Part - A

- 1) Spike is a type of
(a) Racemose inflorescence (b) Cymose inflorescence (c) Mixed inflorescence (d) Special inflorescence
- 2) When anthers have two chambers, they are described as
(a) Dioecious (b) Ditheous (c) Diadelphous (d) Dimorphic
- 3) The type of placentation seen in cucumber is
(a) basal (b) parietal (c) axile (d) marginal
- 4) Seedless Grapes are the
(a) simple dry fruits (b) multiple fruits (c) aggregate fruits (d) parthenocarpic fruits
- 5) The type of fruit seen in Jack is
(a) Multiple fruit (b) Syconium (c) Sorosis (d) Aggregate
- 6) Adventitious roots develop from.....
(a) plumule (b) redicle (c) rhizome (d) any part of the plant
- 7) Which of the following is a parasitic plant?
(a) Vanda (b) Orchid (c) Cuscutta (d) Avicennia
- 8) The sepals are transformed into large, yellow or white leafy structure in.....
(a) Hibiscus (b) Mussaenda frondosa (c) Tridax (d) Clitoria
- 9) A flower which can be cut into equal halves only through one particular plane.....
(a) Actinomorphic (b) Zygomorphic (c) Polygamous (d) Perianth
- 10) A type of simple fleshy fruit is.....
(a) Drupe (b) Legume (c) Caryopsis (d) Sorosis

Part - B

10 x 2 = 20

- 11) Define adventitious root/root cap/meristematic zone/pulvinus/bud.
- 12) What are the advantages of rhizome?
- 13) What is a bisexual flower?
- 14) What are dry dehiscent fruits?
- 15) What are fasciculate roots? Give example.
- 16) How will you differentiate underground stem from the roots?
- 17) What are true fruits and false fruits? Give examples
- 18) What is sorosis? Give one example.
- 19) What is endosperm?
- 20) How does a fleshy fruit differ from a dry fruit?

Part - C

5 x 3 = 15

- 21) Describe the different types of mixed inflorescence with examples.
- 22) Classify cymose inflorescence and explain any two of them.
- 23) Write about the function of roots?
- 24) Explain the different types of calyx.
- 25) Bring out the essential difference in two structure of a dicot and monocot seed by means of labelled diagram only.

Part - D

2 x 5 = 10

- 26) Describe the essential organs of a flower.
- 27) How are the flowers classified based on the arrangement of floral organs and the number of floral parts?
