



INDIAN SCHOOL DARSAIT
DEPARTMENT OF BIOLOGY



Subject : BIOLOGY Topic : Morphology in Flowering Plants Date: 13-01-2019

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Name of the Student: _____ Class & Division : XI Div. ___ Roll Number : ___

Answer of following

- 1) Define pneumatophore 1
- 2) Identify the type of fruit and the part of mango which is edible? 1
- 3) What is the function of endosperm? 1
- 4) How are dicot leaves different from monocot leaves with reference to venation? 1
- 5) What is the other name for cotyledon in monocot seed? 1
- 6) Name the type of root of the following: 1
 - a) Pillar like roots for giving mechanical support.
 - b) Roots coming out of lower branches that give support
 - c) Roots arise from parts of the plant other than the radical
- 7) Define Inflorescence. 1
- 8) What is the difference between testa and tegmen? 1
- 9) What are parthenocarpic fruits? 1
- 10) What is the difference between endospermous and non- endospermous fruit? 1
- 11) What are sterile stamens called? 1
- 12) Draw the floral diagram of solanacea. 2
- 13) What is perianth? 2
- 14) Differentiate between: 2
 - a) Racemose inflorescence and cymose inflorescence.
 - b) Actinomorphic and zygomorphic flowers.
 - c) Gamopetalous and polypetalous flowers

- 15) Give 2 examples for the following: 2
- (a) Modification of underground stem for storage of food-
 - (b) Stem tendrils which develop from axillary buds-
 - (c) Axillary buds of stems modified into woody, straight and pointed thorns-
 - (d) Arid regions stems modified into flattened or fleshy cylindrical structures-
- 16) With the help of a diagram brief on the regions of the root. 2
- 17) Give one example for the types of leaf modifications given below: 2
- (i) tendrils - (iii) insect trap-
 - (ii) fleshy leaves - (iv) petioles expand and becomes photosynthetic -
- 18) Briefly describe different types of phyllotaxy with examples. 3
- 19) Give the technical term for the following: 3
- a) The flat expanded portion of a leaf-
 - b) Orderly arrangement of leaves on the nodes -
 - c) Lateral appendages on either side of the leaf -
 - d) Leaf base swollen in some leguminous plants -
 - e) The arrangement of veins and the veinlets in the lamina of leaf -
 - f) The swollen end of the stalk or pedicel on which the 4 whorls are arranged -
- 20) What are the types of leaves and give examples. 3
- 21) What do you understand from the term 3
- (a) Monoadelphous (b) Diadelphous (c) Polyadelphous
 - (d) Apocarpus (e) syncarpus (f) Pericarp
- 22) Draw a monocotyledon seed and label the following parts 3
- Endosperm, Scutellum, Coleoptile, Plumule, Radicle, Coleorhiza
- 23) What are the three types of flowers based on the position of ovary? 3
- 24) Explain different types of Placentation with the support of diagram and examples. 5
- 25) Explain different types of aestivation with the support of diagram and examples. 5