

Section A

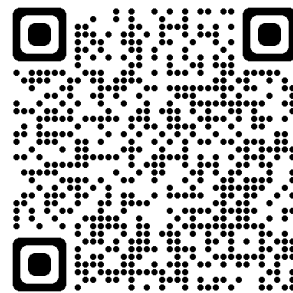
● Write the answer of the following questions. [Each carries 1 Mark] [20]

- In an inflorescence where flowers are borne laterally in an acropetal succession, the position of the youngest floral bud shall be
(A) Proximal (B) Distal (C) Intercalary (D) Any where
- The mature seeds of plants such as gram and peas, possess no endosperm, because
(A) These plants are not angiosperms
(B) There is no double fertilization in them
(C) Endosperm is not formed in them
(D) Endosperm gets used up by the developing embryo during seed development
- Roots developed from parts of the plant other than radicle are called
(A) Tap roots (B) Fibrous roots (C) Adventitious roots (D) Nodular roots
- Venation is a term used to describe the pattern of arrangement of
(A) Floral organs (B) Flower in inflorescence
(C) Veins and veinlets in a lamina (D) All of them
- Endosperm, a product of double fertilization in angiosperms is absent in the seeds of
(A) Gram (B) Orchids (C) Maize (D) Castor
- Many pulses of daily use belong to one of the families below :
(A) Solanaceae (B) Fabaceae (C) Liliaceae (D) Poaceae
- The placenta is attached to the developing seed near the
(A) Testa (B) Hilum (C) Micropyle (D) Chalaza
- Which of the following plants is used to extract the blue dye ?
(A) Trifolium (B) Indigofera (C) Lupin (D) Cassia
- Match the followings columns.

Column - I	Column - II
(a) Aleurone layer	(1) Nutrition
(b) Parthenocarpic fruit	(2) Without fertilisation
(c) Ovule	(3) Seed
(d) Endosperm	(4) Double fertilisation

- (A) (a - 1), (b - 2), (c - 3), (d - 4) (B) (a - 2), (b - 1), (c - 4), (d - 3)
 (C) (a - 4), (b - 2), (c - 1), (d - 3) (D) (a - 2), (b - 4), (c - 1), (d - 3)
- Rearrange the following zones as seen in the root in vertical section and choose the correct option.
 (A) Root hair zone (B) Zone of meristems
 (C) Root cap zone (D) Zone of maturation
 (E) Zone of elongation
 (A) C, B, E, A, D (B) A, B, C, D, E (C) D, E, A, C, B (D) E, D, C, B, A
 - Which type of aestivation is seen in calotropis ?
 (A) Valvate (B) Twisted (C) Imbricate (D) Vexillary

12. What is the symbol for bract ?
(A) Br (B) EBr (C) Brl (D) ABrl
13. What is indicated by $K_{(5)}$?
(A) Five sepals united (B) Five sepals free (C) Five petals united (D) Five petals free
14. The plant of Liliaceae family as medicine
(A) Tulip (B) Gloriosa (C) Aloevera (D) Muliathi
15. Root hairs develop from which region ?
(A) Region of elongation (B) Region of maturation
(C) Region of meristematic region (D) All of these
16. Negatively geotropic roots are found in :
(A) Carrot (B) Sweet potato (C) Rhizophora (D) Turnip
17. Is not a function of stem :
(A) Conducts water & minerals (B) Means of vegetative propagation
(C) Spreads out branches (D) All of these
18. Pick up the correct pair :
(A) Citrus-spine (B) Opuntia-Thorns (C) Both (A) and (B) (D) Pumpkin-tendrill
19. What type of phyllotaxy is observed in Alstonia ?
(A) Alternate (B) Opposite (C) Whorled (D) Twisted
20. A wrong pair is :
(A) Mustard-superior ovary (B) Mustard-zygomorphic flower
(C) Mustard-Actinomorphic (D) Mustard-Partial placentation



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@
ivisionstudent@gmail.com