

Class : 11Register
Number**REVISION EXAMINATION - 2023****BOTANY**

Time Allowed : 3.00 Hours]

[Max. Marks : 70

Part - I**Note. (i) Answer All the questions.****(ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer. 15×1=15**

- Which of the following represents gametophytic generation in Pteridophytes?
a) Prothallus b) Thallus c) Cone d) Rhizophore
- The diameter of DNA helix is
a) 34Å° b) 20Å° c) 12Å° d) 24Å°
- Gynoecium with united carpels is termed as
a) Apocarpus b) Multicarpellary c) Syncarpous d) none of the above
- Assertion (A)** : Increase in proton gradient inside lumen responsible for ATP synthesis.
Reason (R) : oxygen evolving complex of PSII located on thylakoid membrane facing stroma releases H⁺ ions.
a) Both (A) and (R) are True b) (A) is True, (R) is False.
c) (R) is True, (A) is False d) Both (A) and (R) are false.
- Father of taxonomy is
a) Arthur cronquist b) Charles Darwin c) Carolus Linnaeus d) Theoprastus
- Identify correct match
1. Die back disease of Citrus - (i) Mo
2. Whip tail disease - (ii) Zn
3. Brown heart of turnip - (iii) Cu
4. Little leaf - (iv) B
a) 1 (iii), 2 (ii), 3 (iv), 4 (i) b) 1 (iii), 2 (i), 3 (iv), 4 (ii)
c) 1 (i), 2 (iii), 3 (ii), 4 (iv) d) 1 (iii), 2 (iv), 3 (ii), 4 (i)
- The water potential of pure water is
a) Less than zero b) more than zero but less than one
c) More than one d) Zero
- Which of the following reaction is not involved in Kerb's cycle?
a) Shifting of phosphate from 3C to 2C
b) Splitting of fructose 1,6 bisphosphate into two molecules of 3C compounds
c) Dephosphorylation from the substates
d) All of these
- Which one of the following methods are used to break the seed dormancy?
a) Scarification b) Impaction c) Stratification d) All the above
- Centromere is required for
a) Transcription b) crossing over
c) cytoplasmic Cleavage d) Movement of chromosomes towardspole
- Inner, darker and harder portion of Secondary xylem that cannot conduct water in an older dicot stem is
a) Alburnum b) Baat c) Wood d) Duramen
- Which of the following would appear as the Pioneer organisms on barerocks
a) Lichens b) Liverwort c) Mosses d) Green algae
- An example of edible underground stem is
a) Carrot b) Groundnut c) Sweet Potato d) Potato
- Major site for the synthesis of lipids
a) Rough ER b) Smooth ER c) Centriole d) Lysosome

15. Cortex is the region found between
- Epidermis and Stele
 - Pericycle and endodermis
 - Endodermis and Pith
 - Endodermis and Vascular bundle.

SECTION – II

Note: Answer any six of the following questions including.Q.No. 24 which is Compulsory.

16. Where will you place the plants which contain two cotyledons with Cup shaped thalamus? **6x2=12**
17. Write the role of nitrogenase enzyme in nitrogen fixation.
18. What is PCD?
19. What is pulvinus. Give example.
20. Distinguish between nitrogenous base and base found in inorganic chemistry.
21. What is transformation?
22. What do you know about aeroponics?
23. Draw the cell cycle.
24. Write the activity of successive cambium with example.

SECTION – III

Note: Answer any six of the following questions including.Q.No. 33 which is compulsory.

25. Differentiate floating respiration with protoplasmic respiration. **6X3=18**
26. What are prop roots? Give example.
27. Draw and label the parts of the ground plan of T.S. of dicot root.
28. Write any three significances of mitosis.
29. Mention any three diseases caused by fungi in plants.
30. Give the technical terms for the following: (i) A sterile Stamen
(ii) Stamens are attached to the petals (iii) Stamens are united in one bunch.
31. A tree believed to be releasing oxygen during night time. Do you believe the truthfulness of the statement? Justify your answer.
32. What is Eustele? Give an example.
33. Which is gaseous phytohormone? Mention its two physiological effects.

SECTION – IV

Note: Answer all the questions.

5x5=25

34. a) Write the anatomical differences between Dicot stem and Monocot stem.
(OR)
b) Explain the internal structure of *Cycas* rachis.
35. a) Write the significance of Seeds.
(OR)
b) Describe the artificial Seasoning of woods.
36. a) Distinguish between Prokaryotes and Eukaryotes.
(OR)
b) Explain the theory of k^+ transport.
37. a) How will you distinguish Solanaceae members from Liliaceae members?
(OR)
b) Explain the structure and function of different types of RNA.
38. a) Describe the various steps in Glycolysis (Flow Chart only).
(OR)
b) Explain the mechanism of biotic stress.