

Ranipet - DIST

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## COMMON FIRST REVISION EXAMINATION - 2023

Standard - XI

Reg.No. 

Time: 3.00 hrs.

BOTANY

Marks: 70

## PART - I

Answer all the questions:

15×1=15

- Who obtained Virus In crystallised form Infacted Tobacco Juice.  
a) David Balkimore b) Saber man c) W.M. Stanley d) Morise
- Agar - Agar obtained from  
a) Ascophyllum b) Gelidiella c) Fucus d) Chlorella
- Stem is modified into fleshy green structure is called  
a) Phyllode b) Corm c) Bulbil d) Phylloclade
- A multiple fruit which develops from hypanthodium Inflorescence is \_\_\_\_\_.  
a) Sorosis b) Synconus c) Regma d) Lomentum
- Match the column I with column II and find the answer:  

<b>Column - I</b>		<b>Column -II</b>
a) Thylakoids	-	i) Disc - shaped sacs in golgi apparatus
b) Cristate	-	ii) Condensed structure of DNA
c) Cisteranae	-	iii) Flat membranous sacs in stroma
d) Chromatin	-	iv) In foldings in mitochondria

1) a - iii, b - iv, c - ii, d - i                      2) a - iv, b - iii, c - i, d - ii  
3) a - iii, b - iv, c - i, d - ii                      4) a - iii, b - i, c - iv, d - ii
- In S phase of the cell cycle.  
a) Amount of DNA doubles in each cell  
b) Amount of DNA remains same in each cell  
c) Chromosomoe number is increased  
d) Amount of DNA is reduced to half in each cell.
- Which type of RNA comprises about 15% of total RNA  
a) tRNA b) m-RNA c) r-RNA d) hRNA
- 'Histogen' theory is proposed by  
a) Hafmeister b) Nageli c) Hanstein d) Schmidt
- In mature stem centre postion xylem secondary becomes Darker in colour, hard and stops conducting water \_\_\_\_\_ is known  
a) Alburnum b) Bast c) wood d) Duramen
- What type of transpiration is possible in the Xerophyte Opuntia?  
a) Stomatal b) Cuticular c) Lenticular d) All the above
- Identify the correct statement:  
i) Sulphur is essential for amino acids cystine and Methionine  
ii) Low level of N, K, S and Mo affect the cell division.  
iii) Non - leguminous plant Ainuswhich contain bacterium Frankia.  
iv) Denitrification carried out by Nitrasomonas and nitrobacter.  
a) I,II are correct b) I, II, III are correct  
c) I only correct d) all are correct
- The photosynthetically Active Radiation is  
a) 400n to 700nm b) 300 n to 600nm c) 200 to 500nm d) 100 to 400nm
- Which of the following is a 5c compound?  
a) Glucose b) Fructose c) PGA d) RUBP

14. The number of ATP molecules formed by complete oxidation of one molecule of Pyruvic acid is  
a) 12                      b) 13                      c) 14                      d) 15
15. Seed dormancy allows the plants to  
a) overcome unfavourable climatic conditions b) develop healthy seeds  
c) reduce viability                                      d) Prevent deterioration of seeds

**PART - II**

**Note : Answer any six questions. Question No.24 is compulsory:                      6×2=12**

16. Define - Bacteriophage.
17. Do you agree with the statement Bryophytes need water for fertilization. Justify your Answer?
18. Add note on - Epiphytic root.
19. What is Herbarium?
20. Give an account of Go phase?
21. What is meant by Zwitter ion?
22. Write the overall chemical equation for Photosynthesis?
23. What are the four major steps involved Respiration?
24. What is Rich mand lang effect?

**PART - III**

**Note : Answer any six questions. Question No.33 is compulsory:                      6×3=18**

25. Write any three fungal Diseases in plants?
26. Write the pigments and storage food present in the class Dinophyceae?
27. Add note on - Rhizome.
28. Draw the floral diagram and floral formula of clitoria ternatea.
29. Write the differences between spring wood and Autumn wood?
30. What is transpiration? Mention their types?
31. What is Nitrate Assimilation?
32. Write any three differences between Photorespiration and dark respiration?
33. Write about significance of Krebs cycle?

**PART - IV**

**Note : Answer all the questions :**

**5×5=25**

34. a) Write steps involved in Gram staining in Bacteria?                      (OR)  
b) Explain the sporophyte of Marchantia?
35. a) Explain the different types of placentation with example.                      (OR)  
b) How will you distinguish solanaceae members from Liliaceae members?
36. a) Explain special types of chromosomes with diagram?                      (OR)  
b) Write the properties of Enzyme.
37. a) Draw and label the anatomy of Dicto leaf.                      (OR)  
b) Explain mechanism of stomatal movement by starch sugar interconversion theory?
38. a) Draw calvin cycle.                      (OR)  
b) What is the name of alternate way of Glucose breakdown? Explain the process involved in it?

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