HS/XI/Sc/Bio-Bot/18

2018

BIO BOTANY

(Theory)

Full Marks: 35

Time : $1\frac{1}{2}$ hours

The figures in the margin indicate full marks for the questions

General Instructions :

- (i) Write all the answers in the Answer Script.
- (ii) Attempt all parts of a question together at one place.
- (iii) All questions are compulsory.
- (iv) This question paper consists of 4 (four) Groups A, B, C and D.

GROUP 'A' – Consists of **6** (six) Questions (Nos.1 - 6) of 1 (one) mark each; very short answer to be answered in 1 word or 1 sentence each.

GROUP 'B' – Consists of **4** (four) Questions (Nos. **7** – **10**) of 2 (two) marks each; with one alternative from the same unit; short answer, to be answered in 20 - 30 words each.

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GROUP 'C' – Consists of **3** (three) Questions (Nos. **11 – 13**) of 3 (three) marks each; with one alternative, to be answered in 30 - 40 words each.

GROUP 'D' – Consists of **3** (three) Questions (Nos. **14 – 16**) of 4 (four) marks each; with one alternative, long answer type, to be answered in 60 - 70 words each.

GROUP — A

1.	Who proposed the five kingdom classification of organisms?	1
2.	Define Binomial Nomenclature.	1
3.	Give an example of complex permanent tissue.	1
4.	Why lysosomes are also referred to as "suicidal bags of the cell"?	1
5.	Where does the light reaction of photosynthesis take place?	1
6.	What is Plasmolysis?	1

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(3)				(4)		
	GROUP — B			GROUP — D		
7.	Give two salient features of Bryophytes. Or	2		What is inflorescence? Explain the types inflorescence with diagrams.	of Cymose 1 + 3	
		0		Or		
0	Give two salient features of Gymnosperms.	2		What is simple permanent tissue? De different types of simple permanent tis	ssues with	
8.	Distinguish between Gram positive and Gram ne bacteria.	2		diagrams.	1 + 3	
9.	What are plastids? Name the types of plastids.	1 + 1 = 2		Define photosynthesis. Briefly explain dar of photosynthesis	k reactions 1 + 3	
10.	What are micro and macronutrients.	1 + 1 = 2		What is transpiration? How do guard cells opening and closing of stomata?	control the 1 + 3	
	GROUP — C					
11.	With the help of diagrams, explain the Phyllot	-		***		
	leaves. Or	1 + 2 = 3				
	Explain the various modifications of tap roo					
	suitable diagrams.	2 + 1 = 3				
12.	Define meiosis. Mention the significance of meio	osis. 1 + 2 = 3				
10						
13.	Briefly describe the phases of growth in plants with the help of growth curve.	s, $1 + 2 = 3$				
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1 + 3 = 4

1 + 3 = 4

1 + 3 = 4

1 + 3 = 4