

Sample Paper 1

Meghalaya Class XI Bio Botany Sample Paper-1

Time allowed: 1.5 hours

Maximum Marks: 35

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; which one alternative from the same units; short answer, to be answered in 20-30 words each.

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.	What is the main function of sepals?	1
2.	What does the half-leaf experiment on photosynthesis indicate?	1
3.	Why is a leaf of silk cotton called palmately compound?	1
4.	What does the variegated leaf experiment of photosynthesis prove?	1
5.	When do you refer to a vascular bundle as a closed bundle?	1



MEGHALAYA XI | BIO BOTANY

Sample Paper 1

6. Name the reduced form of ubiquinone.

GROUP - B

7.	What are mycorrhizae? How does it benefit the plant?	2
	Or What are gemmae? What role does it play in reproduction?	
8.	Describe the structure and functions of the tracheary elements.	2
9.	Name two heterosporous ferns. Why are they called so?	1+1=2

10. Describe any two modified forms of tap root for storage with one example of each.
1+1=2

GROUP – C

11.	Name the tv	pe of fertilisation	which is	unique to	angiosperms.	Describe it.2+1=3
	nume the ty	pe or rerunsucion	wither 15	unique to	ungiosperms.	

12. Draw a labelled diagram of chloroplast.

Or What is a photosystem? Which is the pigment which acts as a reaction centre? 2+1=3

13. What are the factors affecting the rate of diffusion? **1+2=3**

GROUP – D

14. Explain why?

- (a) Exogenous application of auxin fails to enhance the growth of intact plants.
- (b) Vitamins are not considered as plant growth hormones.
- (c) It is appropriate to call a short-day plant a long-night plant.
- (d)Some plants, belonging to halophytes and growing in marshy lands, face great difficulty in germination.
- (e) Gibberellins do not enhance the growth of isolated plant parts.

Or

A portion of the cross-section of leaf is shown in the diagram. Answer the following:

1

3

4



MEGHALAYA XI | BIO BOTANY

Sample Paper 1



- (a) Label 1 to 4.
- (b) What kind of anatomy is shown in the diagram?
- (c) Write the structure and functions of 2 and 4.
- **15.** What are the steps involved in the formation of a root nodule? **1+3=4**
- 16. A portion of the transverse section of root is shown in the diagram. Label 1 to 4 and also write the function of parts 1 and 4. Briefly explain the pathways 2 and 3.



4