

Sample Paper 2

# Meghalaya Class XI Bio Botany Sample Paper-2

# 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 are macrosporangia or female strobili?									1
2.	Describe the gynoecium of ground nut.									1
3.	How is a continuous ring of cambium formed in a dicot stem?									1
4.	Name the prote mitochondria.	in which	forms	huge	pores	in	the	outer	membranes	of <b>1</b>



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- 5. Julius von Sachs provided evidence for which facts based on his experiment on green plants?1
- 6. Name the component which transfers electrons from ubiquinol to cytochrome c. 1

#### **GROUP - B**

7. How would proteins enter the respiratory pathway?
2
Or

Describe the first step of TCA cycle.

- 8. How do gibberellins help in increasing the sugar yield? 2
- 9. Consider a plant which lacks chlorophyll *a* but has chlorophyll *b*; will it carry out photosynthesis? What is the role of chlorophyll *b* and other accessory pigments?1+1=2
- What is nitrogen fixation? State the two natural sources to provide energy for nitrogen fixation.
   1+1=2

## **GROUP – C**

- **11.** Explain the modes of reproduction in Ulothrix. **2+1=3**
- 12. Explain how the stem is involved in reproduction in jasmine and Chrysanthemum.3

#### Or

Draw a well-labelled diagram of the regions of the root tip.

**13.** Explain the method of hydroponics.

#### GROUP – D

**14.** With the help of a diagram explain the light-harvesting complex (LHC). **4** 

#### Or

Give a detailed account of the Hatch and Slack pathway with the help of a diagram.

- **15.** Describe the events which occur during the life cycle of an angiosperm. **1+3=4**
- **16.** Describe the different regions of the root.

4

2+1=3

1+2=3