

Meghalaya
Class XII
Bio Zoology
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.** Name the period of geological history when lycopod flourished. **1**
- 2.** Recently chikungunya cases were reported from various parts of the country. Name the vector responsible. **1**
- 3.** Why is the Italian bee preferred for beekeeping rather than the Indian bee? **1**
- 4.** *Eichhornia crassipes* is an alien hydrophyte introduced in India. Mention the problems posed by this plant. **1**

Sample Paper 2

5. What is aneuploidy? **1**
6. 'Each and every coitus does not result in fertilisation and pregnancy'. Justify the statement. **1**

GROUP - B

7. How do surgical procedures prevent conception in humans? Mention the way it is achieved in human males. **2**

Or

What is operon? Name the three types of genes which make up an operon.

8. Name the first oxygenic photoautotrophic organisms. What was effect of evolved oxygen on methane and ammonia of reducing atmosphere? **2**
9. Name the enzyme produced by *Streptococcus* bacterium. Explain its importance in medical sciences. **2**
10. Biopiracy should be prevented. State why and how. **2**

GROUP - C

11. Where are fimbriae present in human female reproductive system? Give their function. **1+2=3**
12. Write a note on chorionic villus sampling (CVS). **3**

Or

What are three major classes of RNA? Mention their functions. **1+2=3**

13. Convergent evolution and divergent evolution are the two concepts explaining organic evolution. Explain each one with the help of an example. **3**

GROUP – D

- 14.** List the different population attributes which an individual does not possess.
Explain any four. **4**

Or

Explain the chromosomal theory of inheritance.

- 15.** What do you mean by reproductive health? Mention the different ways in which people are made aware of the significance of reproductively healthy society. **1+3=4**
- 16.** Describe the responsibility of GEAC set up by the Indian Government. **4**