No. of Printed Pages : 4

Sem-I-Zool-CC-II(R&B)

2023

Time - 3 hours

Full Marks - 60

Answer **all groups** as per instructions. Figures in the right hand margin indicate marks. Draw labelled diagrams wherever necessary.

<u>GROUP - A</u>

1	Fill	in	the	blanks.	(all))
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[1 × 8

(a) Lakes poor in nutrient matter are _____.

(b) The main nitrogen reservoir in the biosphere is ______.

(c) Law of minimum was proposed by _____.

(d) The thermocline lies in _____ layer of lake.

- (e) Taxol derived from pacific yew is used in the treatment of
- (f) A form of symbiosis in which both species benifited is

- (g) The transition zone between two communities is called
- (h) The measures of dispersion can never be ______.

GROUP - B

- 2. Answer <u>any eight</u> of the following within two or three sentences each. $[1\frac{1}{2} \times 8]$
 - (a) What is denitrification?
 - (b) What is lentic ecosystem ?
 - (c) What is Gloger rule?
 - (d) What is commensalism ?
 - (e) What is intraspecific competition ?
 - (f) What is succession ?
 - (g) What is primary data?
 - (h) What is median?
 - (i) What is a non parametric test ?
 - (j) What is alpha diversity?

<u>GROUP - C</u>

3. Write notes on any eight of the following within 75 words each.

[2 × 8

- (a) Food web
- (b) Differences between nitrification and denitrification
- (c) Shelford's law of tolerance
- (d) Cyclomorphosis
- (e) Photokinesis
- (f) Endangered species
- (g) Parasitism
- (h) Climax community
- (i) Histogram
- (j) Merits and demerits of Arithmetic Mean

GROUP - D

Answer any four questions within 500 words each.

 Describe the structure of an ecosystem by taking the example of pond ecosystem. [6

5.	What is biogeochemical cycle ? Describe nitrogen cycle with di gram.	а- [6
6.	Explain light as an ecological factor.	[6
7.	Briefly explain competition. Add a note on Lotka Voltera model competition.	of [6
8.	Briefly describe about theories relating to climax community.	[6
9.	What are the different methods of sampling ?	[6
10.	Explain Chi-square test and its applications.	[6