1.

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.

GROUP - A

Fill in the blanks. (all)		[1 × 8
(a)	Pyramid of is always upright.	
(b)	The phosphorous cycle lacks componen	ts.
(c)	The transition area between two communities is	
(d)	The primary consumers are	
(e)	The plant colonize in barren area is calledccession.	su-
(f)	Hydrilla is a hydrophyte.	
(g)	is a soil forming process.	
(h)	Taxonomic group of any rank is known as	<u>.</u>

GROUP - B

- 2. Answer any eight of the following questions within two to three sentences each. [$1\frac{1}{2} \times 8$]
 - (a) What is edge effect?
 - (b) Define physiognomy.
 - (c) Flora
 - (d) Keys
 - (e) What is secondary production?
 - (f) Binomial nomenclature
 - (g) Define biogeochemical cycle.
 - (h) Author citation
 - (i) Define community.
 - (j) What is precipitation?

GROUP - C

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

[2 × 8

- (a) Soil profile
- (b) Relative humidity

- (c) Endemism
- (d) Nitrogen fixation
- (e) Detritus food web
- (f) Documentation
- (g) Functions of Herbarium
- (h) Valid publication
- (i) Primary productivity
- (j) Shelford's law of tolerance

GROUP - D

Answer all questions within 500 words each.

4. Describe the causes, types and processes of ecological succession. [6

OR

Describe the adaptation of Xerophyte.

5. Describe the various types of ecological pyramids.

OR

Discuss the phytogeographical zone of India.

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6. Discuss the importance and functions of Herbarium.

OR

Describe the fundamental components of plant taxonomy.

7. Describe the Hutchinson's system of classification.

OR

Describe the family Malvaceae.