

**2023**

**Time - 3 hours**

**Full Marks - 60**

*Answer all groups as per instructions.  
Figures in the right hand margin indicate marks.*

**GROUP – A**

1. Fill in the blanks. (all) [1 × 8
- (a) The term Ecology was derived from the Greek words \_\_\_\_\_ and \_\_\_\_\_.
- (b) \_\_\_\_\_ ecosystems are the most abundant types of aquatic ecosystems in the world.
- (c) Agricultural revolution is also called as \_\_\_\_\_.
- (d) the biosphere is the \_\_\_\_\_ component of earth system including lithosphere, hydrosphere and atmosphere.
- (e) Vasodilaion occurs in \_\_\_\_\_ climate.
- (f) The term ecosystem was coined by \_\_\_\_\_.
- (g) Swidden agriculture is also known as \_\_\_\_\_.
- (h) Allen put forwarded his rule in the year \_\_\_\_\_.

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GROUP – B

2. Answer any eight of the following questions within two to three sentences each. [1½ x 8

- (a) What is Vasodilation ?
- (b) What are secondary consumers ?
- (c) What is shifting cultivation ?
- (d) What is human ecology ?
- (e) What are producers ?
- (f) What do you mean by ecological niche ?
- (g) What are the components of ecosystem ?
- (h) What is Ecology ?
- (i) What is population ?
- (j) What do you mean by hypoxia ?

GROUP – C

3. Answer any eight of the following questions within 75 words each.

[2 x 8

- (a) Explain Allen's rule.
- (b) What is ecological stress ?

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- (c) What is Neolithic revolution ?
- (d) What is ecosensitivity ?
- (e) What is Acclimation ?
- (f) What is Hydraulic Civilisation ?
- (g) What is Acclimatisation ?
- (h) What is Peasantry ?
- (i) What are Abiotic components of an ecosystem ?
- (j) Write how domestication of plants started in pre-state societies.

GROUP – D

Answer *all* questions within 500 words each.

4. Define ecology, ecosystem and various components of ecosystem. [6

OR

Write short notes on the following : [2 x 3

- (a) Ecosensitivity
- (b) Aquatic ecosystem
- (c) Acclimatisation

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5. Write down the methods of studying human ecology. [6]

OR

What is ecological stress ? Explain in detail, how human being adapt to various ecological stresses.

6. Explain how culture plays important role in adaptation to pastoralist and agricultural societies. [6]

OR

Define how culture helped man for adaptation to hunting and food gathering societies.

7. Discuss various major aspects of Hydraulic Civilisation. [6]

OR

Write an essay on impact of urbanisation and industrialisation on man.