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MED-001

**POST GRADUATE DIPLOMA IN
ENVIRONMENT AND SUSTAINABLE
DEVELOPMENT (PGDESD)**

Term-End Examination

June, 2019

MED-001 : UNDERSTANDING THE ENVIRONMENT

Time : 2 Hours

Maximum Marks : 50

Note : All questions are compulsory.

1. Answer any *five* of the following : $5 \times 2 = 10$

(a) Name the kingdoms of organisms with cell walls :

(i) Made of polymers of polysaccharide chains covalently cross linked by short amino acid chains.

(ii) Containing nitrogenous polysaccharide.

(A-17) P. T. O.

- (b) Mention causes of temporary and permanent hardness of water.
 - (c) Explain "Salt Solution Phase" and "Rock Phase" of sedimentary cycles.
 - (d) List *four* main factors that affect population size.
 - (e) What is "Krummholze" (crooked wood) ?
What is 'Smog' ? How is it formed ?
 - (f) Comment on the statement "Ozone is both a protector and a problem".
2. Attempt any *two* of the following : 2×5=10
- (a) Discuss the various parameters that are tested to ensure the quality of water.
 - (b) With the help of suitable examples, describe any *two* modes of heterotrophic nutrition.
 - (c) Write short notes on any *two* of the following :
 - (i) Homeostasis
 - (ii) Coriolis effect
 - (iii) Ecological efficiency

3. What do you understand by conservation ?
Mention how eco-restoration of degraded land
can be achieved. 10

Or

What are estuaries ? How are these classified ?
Discuss important abiotic characteristics of
estuarian systems. 1+2+7=10

4. With the help of well labelled diagrammatic
representation, describe Nitrogen cycle. 10

Or

List the different life zones of a lake based on
abiotic environmental variables. Describe any
two of them in detail. 3+7=10

5. Trace the trends in the use of natural resources
by *Homo sapiens sapiens* as they evolved from
primitive hunting-gathering societies to present
day industrial societies. 10

Or

Supposing you are asked to study the temporal variations in community structure. What location would you select ? Discuss the community changes you observed consistently over a long period of time. What is term for this phenomenon ? Describe this phenomenon named by you in detail. $1+2+1+6=10$