

**V/ BOT (viii)**

**2014**

**( 5th Semester )**

**BOTANY**

**EIGHTH PAPER**

**( Environmental Biology and Ethnobotany )**

*Full Marks : 55*

*Time : 2 hours*

**( PART : B—DESCRIPTIVE )**

*( Marks : 35 )*

*The figures in the margin indicate full marks  
for the questions*

1. Define environment. Describe in brief different types of climatic factor.  $1+6=7$

*Or*

What is biogeochemical cycle? Describe nitrogen cycle with a neat diagram.  $1+6=7$

2. What are non-biodegradable pollutants? Mention their role in biomagnification.  $2+5=7$

*Or*

Write short notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$

(a) Radioactive waste disposal

(b) The causes of ozone-layer depletion

*( Turn Over )*

3. Describe in brief various measures of water conservation.

7

Or

Why is it needed to formulate an environmental laws? Discuss the problems in making and implementing environmental laws.

$3\frac{1}{2}+3\frac{1}{2}=7$

4. What are the major vegetation types of India? Give a brief account on any two vegetation types.

$2+5=7$

Or

Write short notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$

(a) Hot spots

(b) Vegetational zone of Eastern Himalayas

5. What is ethnobotany? Describe its scope in India.

7

Or

Write short notes on two ethnobotanically important fibre-yielding and medicinal plants citing their botanical names, families and parts used.

$3\frac{1}{2}+3\frac{1}{2}=7$

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**( 5th Semester )**

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**( PART : A—OBJECTIVE )**

**( Marks : 20 )**

*The figures in the margin indicate full marks for the questions*

**SECTION—A**

**( Marks : 5 )**

Put a Tick (✓) mark against the correct answer in the  
brackets provided : 1×5=5

**1. The term 'biosphere' was coined by**

(a) E. J. Kormondy ( )

(b) Ernst Haeckel ( )

(c) Edward Suess ( )

(d) A. G. Tansley ( )

2. Acid rain is caused due to pollution of the atmosphere by

- (a) oxides of carbon and nitrogen ( )
- (b) oxides of carbon and phosphorus ( )
- (c) oxides of nitrogen and sulphur ( )
- (d) oxides of nitrogen and phosphorus ( )

3. Species that have a high tendency of extinction are categorized as

- (a) vulnerable ( )
- (b) endangered ( )
- (c) rare ( )
- (d) extinct in the wild ( )

4. The seashore halophytic vegetation of tropical and subtropical regions is known as

- (a) epiphytes ( )
- (b) ephemerals ( )
- (c) succulents ( )
- (d) mangroves ( )

( 3 )

5. Which of the following is ethnobotanically used as fruit?

(a) Marigold ( )

(b) Peach ( )

(c) Neem ( )

(d) Cabbage ( )

( 4 )

**SECTION—B**

( Marks : 15 )

Write short notes on the following :

3×5=15

1. Non-renewable resources

( 5 )

## 2. Photochemical smog

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( 6 )

**3. Ex situ conservation**



4. Endemism

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