

2015

(5th Semester)

BOTANY

EIGHTH PAPER

(Environmental Biology and Ethnobotany)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

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

1. What is biogeochemical cycle? Describe the carbon cycle with a diagram. 1+6=7

Or

What do you mean by natural resources? Explain the renewable and non-renewable resources. 3+4=7

2. What is greenhouse effect? Mention the important greenhouse gases. 3+4=7

G16/151a

(Turn Over)

Or

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

- (a) Photochemical smog
- (b) Effect of ozone depletion

3. Describe the various measures of soil conservation. 7

Or

What is Biodiversity loss? Explain the *ex-situ* and *in-situ* conservations. $3+4=7$

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

- (a) Endemism
- (b) Vegetation

Or

What is phytogeography? Describe the various floristic regions of India. $2+5=7$

5. Write the botanical names, families and parts used of two fodder- and fiber-yielding plants. $3\frac{1}{2}+3\frac{1}{2}=7$

Or

Describe ethnobotany and its significance. 7

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(Environmental Biology and Ethnobotany)

(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. Which of the following acts as resource producers and processors?

(a) Environment ()

(b) Ecosystem ()

(c) Biodiversity ()

(d) All of the above ()

2. Ozone (O_3) is present in the layer of

- (a) troposphere ()
- (b) stratosphere ()
- (c) mesosphere ()
- (d) thermosphere ()

3. The Wildlife Protection Act was formulated in the year

- (a) 1974 ()
- (b) 1972 ()
- (c) 1986 ()
- (d) 1973 ()

4. The mountains of Himalayas and Nilgiri above 5300 ft altitude lie under

- (a) tropical forests ()
- (b) montane subtropical forests ()
- (c) temperate forests ()
- (d) alpine forests ()

5. *Citrullus lanatus* is a common

(a) food ()

(b) fruit ()

(c) fodder ()

(d) fiber ()

SECTION—B

(Marks : 15)

Write short notes on the following :

3×5=15

1. Acid rain

2. Patent

3. Hotspots

Write short notes on the following :

1. Acid rain

4. Biomagnification

(5th Semester)

BOTANY

EIGHTH PAPER

(Microbiological Biology and Ethnobotany)

(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
bracket provided. 1×5=5

1. Which of the following acts as resource producers and
storehouse?

- (a) Environment (1)
- (b) Ecosystem (2)
- (c) Biodiversity (1)
- (d) All of the above (3)

5. IPR

(a) troposphere

(b) stratosphere

(c) mesosphere

(d) thermosphere

3. The Wildlife Protection Act was formulated in the year

(a) 1974

(b) 1972

(c) 1986

(d) 1973

4. The mountains of Himalayas and Nilgiris show similar altitude vegetation

(a) tropical forests

(b) montane subtropical forests

(c) temperate forests

(d) alpine forests
