

2014

(5th Semester)

ENVIRONMENTAL SCIENCE

EIGHTH PAPER (EVS-504)

(**Environmental Problems and
Disaster Management**)

Full Marks : 75

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 50)

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

1. Give detailed accounts on the consequences of global warming on (a) agriculture, and (b) plants, animal and ecosystems. 5+5=10

Or

Discuss the process involved in the stratospheric ozone depletion. Explain the consequences of ozone depletion. 4+6=10

G15—100/177a

(Turn Over)

2. Write short notes on the following : 5+5=10

(a) Acid rain

(b) El Niño

Or

Define desertification. Explain the causes and control measures of desertification. 2+8=10

3. What is meant by urbanization? Discuss the impact of urbanization on environment and society. 2+8=10

Or

Write short notes on the following : 5+5=10

(a) Environmental problems due to anthropogenic activities

(b) Depletion of natural resources

4. Explain, in detail, the concept of environmental economics. Discuss the cost-benefit analysis. 6+4=10

Or

Give a detailed account on the following :

5+5=10

(a) Environmental planning

(b) Development indices

5. Describe landslide hazard and its mitigation measures. 10

Or

Write short notes on the following : 5+5=10

- (a) Earthquakes
- (b) Predisaster management

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(PART : A—OBJECTIVE)

(Marks : 25)

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SECTION—A

(Marks : 10)

I. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×10=10

1. Carbon dioxide contribution to global warming is in the range of

(a) 9%–23% ()

(b) 9%–26% ()

(c) 7%–23% ()

(d) 7%–26% ()

2. Recent concentration of methane in the atmosphere is

(a) 1693 ppb ()

(b) 1793 ppb ()

(c) 1893 ppb ()

(d) 1993 ppb ()

3. Natural increase of urbanization can occur

(a) if the natural population growth in the cities is higher than in the rural areas ()

(b) if the natural population growth in the rural areas is higher than in the cities ()

(c) if the natural population growth is equal in the cities and in the rural areas ()

(d) when there is zero population growth in the rural areas ()

4. — is the primary driver of deforestation, both in modern and ancient times.

(a) Forest fire ()

(b) Agriculture ()

(c) Livestock rearing ()

(d) Hunting ()

5. Causes of deforestation in developing nations include all of the following, except

- (a) demand for firewood ()
- (b) demand for agricultural land ()
- (c) declining awareness of environmental impacts ()
- (d) demand for hardwood as a cash crop ()

6. A country is considered to be urbanized when over — percent of its population live in urban areas.

- (a) 40 ()
- (b) 50 ()
- (c) 60 ()
- (d) 70 ()

7. Maximum concentration of ozone is found in

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

8. The source of an earthquake is called

- (a) epicentre ()
- (b) tectonic plate ()
- (c) focus ()
- (d) central eye ()

9. 'Tsunami' literally means

- (a) harbour wave ()
- (b) sea wave ()
- (c) huge wave ()
- (d) series of waves ()

10. Minamata disaster was caused by the release of

- (a) ethyl mercury ()
- (b) methyl mercury ()
- (c) propyl mercury ()
- (d) butyl mercury ()

SECTION—B

(Marks : 15)

II. Write short notes on the following :

3×5=15

1. Greenhouse effect

2. La Niña

II. Write short notes on the following :

1. Greenhouse effect

10. Minamata disaster was caused by the release of

(a) methyl mercury

(b) methyl mercury

(c) methyl mercury

(d) methyl mercury

3. Shifting cultivation effects

Impact of shifting cultivation on environment

(5th Semester)

ENVIRONMENTAL SCIENCE

EIGHTH PAPER (EVS-304)

(Environmental Problems and Disaster Management)

PART I A - OBJECTIVE I

(Marks: 25)

The figures in the change indicate the marks for the questions

SECTION - A

(Marks: 10)

1. A shift in the growth rate of the world population is indicated by the following figures

World population growth rate in 1950 was 1.4% and in 1980 it was 1.6%.

(a) 1.4-1.6%

(b) 1.6-1.8%

(c) 1.8-2.0%

(d) 2.0-2.2%

4. Impact of infrastructure development on the environment

(a) 1693 ppb

(b) 1793 ppb

(c) 1893 ppb

(d) 1993 ppb

3. Natural increase of urbanisation will occur

(a) if the natural population growth in the cities is higher than in the rural areas

(b) if the natural population growth in the rural areas is higher than in the cities

(c) if the natural population growth is equal in the cities and in the rural areas

(d) when there is zero population growth in the rural areas

4. — is the primary driver of deforestation, both in modern and ancient times

(a) Forest fire

(b) Agriculture

(c) Livestock rearing

(d) Hunting

5. Tsunami
