

**2020**

*Full Marks : 70*

*Time : 3 hours*

*The figures in the right-hand margin indicate marks*

Answer from **all** the Parts as directed

Part—A

**(Objective Type Questions)**

1. Select the correct answer from the options given below/Fill in the blanks :

10×1

(a) Who has coined the term 'Ecosystem'?

- ☒ (i) A. G. Tansley
- (ii) Alfred Wallace
- (iii) Ernst Haeckel
- (iv) Charles Darwin

(b) Biotic components of an ecosystem include

- (i) producers only
- (ii) consumers only

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- (iii) producers and consumers  
(iv) producers, consumers and decomposers
- (c) Sanjay Gandhi Biological Park, Patna is an example of
- (i) in-situ conservation  
(ii) ex-situ conservation  
(iii) Both (i) and (ii)  
(iv) None of the above
- (d) Greenhouse gases, primarily are
- (i) carbon dioxide and methane  
(ii) methane and sulphur dioxide  
(iii) nitrogen dioxide and methane  
(iv) carbon monoxide and methane
- (e) The Taj Mahal is threatened due to the effect of
- (i) chlorine  
(ii) oxygen  
(iii) sulphur dioxide  
(iv) hydrogen
- (f) Every year, 5th June is celebrated as World \_\_\_\_\_ Day.

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- (g) Sunderlal Bahuguna is remembered in the context of \_\_\_\_\_. *protecting the env.*
- (h) Minamata disease is caused by \_\_\_\_ poisoning. *heavy mercury*
- (i) The Convention on Biological Diversity (CBD) was opened for signature at the Earth Summit in \_\_\_\_\_ of Brazil and entered into force on 29th December, 1993. *Rio de Janeiro*
- (j) Increase in the rate of GPP is one of the factors which is responsible for the growth of human population.

Part—B

**(Short Answer Type Questions)**

2. Write short notes on any four of the following (to be answered in not more than 200 words each) : 4×5

- (a) Ecosystem biodiversity  
(b) Impact of human population growth  
(c) Effects of noise pollution  
(d) Global warming

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(Turn Over)

- (e) Montreal Protocol
- (f) Impact of flood on organisms.

Part—C

**(Long Answer Type Questions)**

3. Answer any four questions of the following : 4×10

- ✓(a) Describe the structure and functions of a pond ecosystem.
- ✓(b) What do you mean by sustainable development? How will it be achieved for the betterment of life?
- ✓(c) What are the causes and effects of loss of biodiversity?
- ✓(d) Describe the causes and impact of air pollution. Suggest remedial measures to minimize air pollution.
- (e) Describe Water (Prevention and Control of Pollution) Act.
- (f) Describe Indian cultures which are linked to environmental conservation.

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