

P. P. SAVANI UNIVERSITY

First Semester of B.Sc. Examination

Jan.-Feb.-2022

SSES1070-Environment Studies

07.02.2022, Monday

Time: 12:00 p.m. to 02:30 p.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Make suitable assumptions and draw neat figures wherever required.
3. Use of scientific calculator is allowed.

Section-I (Total Marks - 30)

Q.1 Short Questions

1.1 Objectives

[10]

[05]

- 1.1a Living things in an environment is known as _____
- A Abiotic elements
 - B Biotic elements
 - C Animals and micro-organism
 - D Plants
- 1.1b Is there any public awareness need is required for natural environmental resources?
- A Yes
 - B No
 - C Might be
 - D Not sure
- 1.1c The degradation in forest is mainly caused by _____
- A Rapid urbanization
 - B Rapid industrialization
 - C Expansion in agricultural land
 - D All of the above
- 1.1d _____ is used for heating water and generate electricity.
- A Solar energy
 - B Geothermal energy
 - C Wind energy
 - D All of the above
- 1.1e Advance countries produces _____ global industrial waste and greenhouse gases.
- A 50%
 - B 75%
 - C 25%
 - D 15%
- 1.1f MoEF stands for
- A Master of Environment and Forest
 - B Ministry of Environment and Forest
 - C Ministry of Eco-Environment and Food
 - D Master of Eco-Environment and Food

- 1.1g** New guidelines for JFM issued in which year?
A 1998
B 1990
C 2000
D 2002
- 1.1h** A person needs _____ liters of water per day for drinking and sanitation.
A 20-40
B 10-30
C 20-30
D 10-40
- 1.1i** Which of the following is not a nonrenewable resource?
A Coal
B Petroleum
C Natural gas
D Water
- 1.1j** Liquid fuels also called _____
A Biofuels
B Methanol
C LPG
D CNG

1.2 Answer the Following

[05]

- 1.2a** What is renewable and nonrenewable resources?
1.2b Define Geothermal energy.
1.2c Write down the types of mines.
1.2d What is prospecting and exploitation.
1.2e Define Biosphere.

Q.2 Short Notes (Attempt any two)

[06]

- A What are the problems that associated with the natural resources? Explain it.
B What is sustainability? What is needed for sustainable lifestyle?
C Explain ecosystem valuation.

Q.3 Explain in detail (Attempt any two)

[14]

- A What is hydroelectric power and how it is used? Explain in detail. Write advantages and disadvantages.
B Explain solar energy in detail.
C Describe the importance of natural environmental resources with respect to environmental services provided by ecosystems.

Section-II (Total Marks - 30)

Q.1 Short Questions [10]

1.1 Objectives [05]

1.1a _____ agreement was signed by India in order to protect and support biologically rich natural areas.

- A World Heritage convention
- B CITES
- C Ramsar convention
- D Montreal Protocol

1.1b India has ____ different variety of mammals.

- A 453
- B 1200
- C 350
- D 1022

1.1c India's world ranking is ____ in terms of variety in amphibians.

- A 5
- B 10
- C 12
- D 15

1.1d _____ mammal species is commonly found in India.

- A Bonnet Macaque
- B Egrets
- C Ziziphus
- D Olive Ridley

1.1e Which of the following is the largest reptile and is poached for its prized skin.

- A Indian Snakes
- B Turtles
- C Crocodile
- D Gharial

1.1f _____ chemicals are responsible for Acid rain.

- A Sulphur Oxides
- B Nitrogen Oxides
- C Both A and B
- D None of the above

1.1g _____ is related to constant purchasing of new goods, with little attention to their true need, Durability, origin or environmental consequences of their manufacture and disposal.

- A Consumerism
- B Poaching
- C Wasteland reclamation
- D Holocaust

1.1h Amongst 3 R's, ____ is consider as the best option.

- A Reduce
- B Recycle
- C Reuse

D Recover

1.1i The Water (Prevention and Control of Pollution) Act was formulated in year

—

A 1971

B 1974

C 1984

D 1981

1.1j _____ Act was implemented in the spirit of proclamation adopted by the United Nations conference in Human Environment, held in Stockholm in June 1972.

A The Water (Prevention and Control of Pollution)

B The Air (Prevention and Control of Pollution)

C The Environment (Prevention)

D The Wildlife (Prevention)

1.2 Answer the Following

[05]

1.2a Define Biodiversity.

1.2b Mention the values of biodiversity.

1.2c Full form of MOEF.

1.2d ___ brought forth a set of 8 propositions which are of great relevance to the ethical issues that are related to environmental concerns.

1.2e Wastelands are classified into 4 categories. True/False.

Q.2 Short Notes (Attempt any two)

[06]

A Write a note on types of biodiversity.

B Write a note on Rain water harvesting.

C Write a note on The Air (Prevention and control of Pollution) Act.

Q.3 Explain in detail (Attempt any two)

[14]

A Write a note on In-Situ conservation.

B What are the threats to biodiversity?

C Write a note on Ozone layer depletion.