

P. P. SAVANI UNIVERSITY

Second Semester of B.Sc. backlog Examination
December-2021

SSES1040-Introduction to Environment Science-II

28.12.2021, Tuesday Time: 09:00 a.m. to 11:30 a.m. Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

Section-I (Total Marks - 30)

Q.1 Short Questions [10]

1.1 Objectives [05]

- 1.1a The solar radiation that bounces off the Earth back toward the atmosphere is mostly ____ (with a longer wavelength).
- A Gamma radiation
 - B X-ray radiation
 - C Nuclear radiation
 - D Infrared radiation
- 1.1b At what level a sound becomes physical pain?
- A Above 50 dB
 - B Above 70 dB
 - C Above 80 dB
 - D Above 60 dB
- 1.1c Beta particles has higher penetrating power than ____.
- A Gamma rays
 - B X - rays
 - C Alpha particles
 - D Neutrons
- 1.1d Ozone hole refers to
- A Decrease in the thickness of ozone layer in stratosphere
 - B Increase in the thickness of ozone layer in troposphere
 - C Hole on ozone layer
 - D Decrease in the ozone layer in troposphere
- 1.1e Which of the following is not a way to conserve water?
- A Recycle
 - B Replace
 - C Reuse
 - D Reduce
- 1.1f How are monuments of marble destroyed?
- A By dust particles
 - B By pesticide pollution
 - C By carbon monoxide pollution
 - D By sulfur dioxide pollution

- 1.1g The major contributor of Carbon monoxide is
- A Industrial activity
 - B Transportation
 - C Stationary fuel combustion
 - D Residential wood burning
- 1.1h Which of the following appears to contribute to global cooling rather than global warming?
- A Methane
 - B Aerosols
 - C Nitrous oxides
 - D Chlorofluorocarbons
- 1.1i Which of the following is not the natural cause of thermal pollution?
- A Lightning
 - B Geothermal activity in sea
 - C Volcanic eruption
 - D Deforestation
- 1.1j Which of the following Reduce oxygen carrying capacity of Blood by irreversibly binding with hemoglobin?
- A Carbon dioxide
 - B Sulphur dioxide
 - C Carbon monoxide
 - D Nitrous oxide

1.2 Answer the Following: (MCQ/Short Question/Fill in the Blanks) [05]

- 1.2a Which greenhouse gas produced from nitrogen rich fertilizers?
- 1.2b Montreal protocol is related to the Ozone layer depletion. TRUE/FALSE
- 1.2c What is eutrophication?
- 1.2d What is called for the phenomenon when the radiation absorbed by the atmosphere is re-radiated towards the surface of the Earth?
- 1.2e What is the total percentage of nitrogen gas in the air?

Q.2 Short Notes (Attempt any two) [06]

- A Write a note on air pollutants.
- B Describe about causes & effects of soil pollution
- C Write a note on greenhouse gases.

Q.3 Explain in detail (Attempt any two) [14]

- A Write about sources and effect of oceanic pollution.
- B Describe in detail about rain water harvesting system.
- C What is thermal pollution? Describe it's sources & effects.

Section-II (Total Marks - 30)

Q.1 Short Questions

[10]

1.1 Objectives

[05]

- 1.1a** The World AIDS Day is celebrated on
- A June 5
 - B December 1
 - C August 1
 - D January 5
- 1.1b** The Air (Prevention and Control of Pollution) Act was enacted in the year:
- A 1981
 - B 1986
 - C 1972
 - D 1976
- 1.1c** EIA stands for
- A Environmental Impact Agency
 - B Environmental Impact Assessment
 - C Environmental Issue Agency
 - D Environmental Issue Assessment
- 1.1d** The magnitude of population growth refers to:
- A The total population of an area
 - B The number of persons added each year
 - C The number of females per thousand males.
 - D The rate at which the population increases
- 1.1e** The first of the major environmental protection act to be promulgated in India was:
- A Water Act
 - B Air Act
 - C Environmental Act
 - D Noise Pollution Rule
- 1.1f** The provisions of environmental protection in the constitution were made under:
- A Article 5-A
 - B Article 21-B
 - C Article 27-B (h)
 - D Article 48-A and Article 51-A (g)
- 1.1g** What is Sex ratio?
- A Number of females per hundred males
 - B The study of population growth
 - C Number of females per thousand males
 - D Difference between birth rate and death rates
- 1.1h** The rapid growth of human population is NOT due to
- A Green revolution
 - B Spread of public health program
 - C Reduction in infant mortality
 - D Spread of diseases

1.1i Where we can find over strained infrastructure due to population growth?

- A In desert areas
- B In urban areas
- C In rural area
- D In forest areas

1.1j The Wildlife (Protection) Act was enacted in the year:

- A 1986
- B 1974
- C 1972
- D 1994

1.2 Answer the Following: (MCQ/Short Question/Fill in the Blanks) [05]

1.2a India launched the national family welfare programme in ____.

1.2b In transitional phase of population growth curve, Natality rates start to fall and mortality rates begin to rise. TRUE/FALSE

1.2c In which phase of population growth curve, Natality rates is higher as compared to mortality rates?

1.2d What is the full form of AIDS?

1.2e Which is the first country to initiate a Family Planning program in the world?

Q.2 Short Notes (Attempt any two) [06]

- A Describe about birth control method.
- B Write in detail about water conservation.
- C Explain: The air (Prevention and control of Pollution) Act.

Q.3 Explain in detail (Attempt any two) [14]

- A Write about Population Growth.
- B What is family welfare programme? Describe objectives of family welfare programme
- C Explain: Environment protection act.