

No. of Printed Pages: 3

Roll No.....

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DEPARTMENT OF PHYSIOTHERAPY
SCHOOL OF NURSING SCIENCES & ALLIED HEALTH**

**BPT 1st YEAR, ANNUAL EXAMINATION, MAY 2024
ENVIRONMENTAL SCIENCES (THEORY)
PAPER CODE: BPT – 170**

Time: 3 Hours

Maximum Marks: 75 Marks

(Write your Roll No. on top of the paper immediately)

All sections are compulsory. Draw diagrams wherever necessary. Give examples wherever necessary.

SECTION – A

Multiple choice Questions (All are compulsory)

(1 × 15 Marks = 15 Marks)

- Q1.** Which non-renewable energy source releases the least amount of carbon dioxide when burned?
a) Coal b) Petroleum (Oil) c) Natural Gas d) Nuclear
- Q2.** What is the primary advantage of renewable energy sources over non-renewable sources?
a) They are more reliable c) They are cheaper to extract
b) They produce less pollution d) They are available in abundance
- Q3.** Which term refers to the process of removing branches and foliage from felled trees during timber extraction?
a) Skidding b) Bucking c) Limbing d) Delimbing
- Q4.** Which organization is responsible for managing water resources in Andover?
a) Andover Water Authority c) Andover Water Conservation Committee
b) Andover Environmental Agency d) Andover Municipal Water Department
- Q5.** Which type of erosion occurs when water concentrates into small channels, creating small rivulets?
a) Sheet erosion b) Rill erosion c) Gully erosion d) Streambank erosion
- Q6.** Which one of the following correctly describes a symbiotic relationship between two organisms?
a) A species of living organisms lives and feed on dead and decaying organisms
b) One species of organism benefit at the expense of another species
c) Two species of organism derive benefit from each other
d) None of the Above
- Q7.** Which of the following trophic level (in the pyramid of number) has maximum number of individuals?
a) Secondary consumer b) Producers c) Primary consumers d) Tertiary consumers

- Q8.** In a food web hyenas and vultures are
a) Predators b) Primary consumers c) Scavengers d) Decomposers
- Q9.** Which governmental body is responsible for implementing the Wildlife Protection Act in India?
a) Ministry of Environment, Forest, and Climate Change
b) Ministry of Wildlife Conservation
c) Ministry of Agriculture and Farmers Welfare
d) Ministry of Tribal Affairs
- Q10.** Which international standard provides guidelines for resettlement and rehabilitation practices?
a) Universal Declaration of Human Rights
b) Kyoto Protocol
c) United Nations Guiding Principles on Internal Displacement
d) World Bank Operational Policy on Involuntary Resettlement
- Q11.** Which of the following was not one of the Millennium Development Goals?
a) Eradicate extreme poverty and hunger
b) Achieve universal primary education
c) Promote gender equality and empower women
d) Combat climate change
- Q12.** Which of the following is an example of an umbrella species?
a) Mountain Lion c) Monarch Butterfly
b) African Elephant d) American Bison
- Q13.** Chipko Movement was strengthened under the leadership of
a) Amrita Devi Bishnoi c) A. K. Banerjee
b) Medha Patkar d) Sunder Lal Bahuguna
- Q14.** Which of the following national parks of India is listed in the Natural World Heritage sites of UNESCO?
a) Namdapha National Park c) Keoladeo Ghana National Park
b) Dachigam National Park d) Bandipur National Park
- Q15.** Which of the following region of our country are known for their rich biodiversity?
a) Western ghats and eastern Himalayas
b) Western ghats and deccan plateau
c) Eastern Himalayas and Gangetic plain
d) d. None of the above

SECTION - B

Answer any **THREE** of the following:

(3 × 10 Marks = 30 Marks)

- Q1. Why is understanding biogeochemical cycles important to environmental science?
- Q2. How do the greenhouse gases CO₂, H₂O, and CH₄ have an effect on the temperature of the atmosphere?
- Q3. How is the process of carbon sequestration by trees important?
- Q4. Why are most environmental resources un-priced (or underpriced), and what are the consequences of this?

SECTION - C

Answer any **TWO** of the following:

(2 × 15 Marks = 30 Marks)

- Q1. What is a food chain? What are ecological pyramids explain their types, limitations, and their importance.
- Q2. How is acid rain connected to air pollution? What effect does air pollution on food, crop, forest, and biodiversity?
- Q3. What is biodiversity and its conservation? Describe in-situ and ex-situ conservation of biodiversity with suitable example.
