

TRIBHUVAN UNIVERSITY
Institute of Science and Technology
Central Department of Botany
M.Sc. Entrance Examination – 20.....

BIODIVERSITY AND ENVIRONMENTAL MANAGEMENT (BEM)

Exam date:

Full Marks: 100

Time: 2 Hours

Pass Marks: 35

Roll No.

Roll No. in Word:

Instructions

- There are 100 questions in this paper. All questions carry equal mark.
- Each question is followed by four alternative answers. **Fill the circle** for the correct choice in the answer sheet.
- The candidate will not be allowed to leave the examination hall before 30 minutes of commencement of the examination.

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1. A biotic factor that affects the size of a population in a specific ecosystem is
 - a. Average temperature of the ecosystem
 - b. Type of soil in the ecosystem
 - c. Number and kinds of predators in the ecosystem
 - d. Concentration of oxygen in the ecosystem
 2. Ozonosphere is a part of
 - a. Troposphere
 - b. Stratosphere
 - c. Exosphere
 - d. Thermosphere
 3. Which of these ecosystem services does not belong to the regulating service?
 - a. Carbon sequestration
 - b. Erosion control
 - c. Waste decomposition
 - d. Water supply
 4. What is called the fall in average air temperature per 100 m rise in elevation in the mountains?
 - a. Lapse rate
 - b. Lipse rate
 - c. Leap year
 - d. Lap year
 5. The main cause of extinction of species from tropical region is
 - a. Afforestation
 - b. Deforestation
 - c. Pollution
 - d. Soil erosion
 6. Areas with high diversity of endemic species and high rate of habitat degradation are designated as
 - a. Biodiversity hotspots
 - b. Protected forests
 - c. Ramsar sites
 - d. Protected areas
 7. Which of the following tree species is the main component of the broad-leaved evergreen forest in the Himalaya?
 - a. *Pinus roxburghii*
 - b. *Cedrus deodara*
 - c. *Alnus nepalensis*
 - d. *Quercus* spp.
 8. Greater One-horned Rhino (*Rhinoceros unicornis*) has been listed in global Red List of IUCN as
 - a. Critically Endangered
 - b. Endangered
 - c. Vulnerable
 - d. Near Threatened
 9. Where was the COP25 of the UNFCCC held?
 - a. Nagoya
 - b. Poland
 - c. Chile
 - d. Peru
 10. Biochemical oxygen demand (BOD) in water depends on
 - a. Dissolved oxygen
 - b. Dissolved organic matters
 - c. Microbial diversity
 - d. Total dissolved solid
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100.

Note: Entrance questions cover BSc. courses of biological sciences.