

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**BACHELOR OF SCIENCE (B. SC.) - DIGITAL ARTS (ANIMATION)**  
**BACHELOR OF ARTS (B.A.) – (GAME ART AND DESIGN)**  
**BACHELOR OF SCIENCE (B. SC.) - (GAME ART AND DESIGN)**  
**BACHELOR OF SCIENCE (B. SC.) – (MEDIA GRAPHICS IN**  
**ANIMATION AND VFX)**  
**EXAMINATION: MAY – 2025**  
**SIXTH SEMESTER**  
**Sub.: Environmental Study (Theory)**  
**(BSC-20-603/ BAGD-19-603/ BSGD-19-603/ BSGA-22-605)**

**Date: 7/05/2025**

**Total Marks: 40**

**Time: 2.00 pm to 4.00 pm**

**Instructions: All questions are compulsory.**

**Q. 1. Multiple choice questions**

**(10)**

1. Which of the following is the major challenge in expanding solar energy in India
  - a) Lack of government interest
  - b) High radiation levels
  - c) High initial cost and intermittent energy supply
  - d) Low consumer demand
2. Which of the following is an example of In-situ conservation?
  - a) Botanical garden
  - b) Zoological park
  - c) National park
  - d) Seed bank
3. In ecological succession, first organisms to colonize barren land are-
  - a) Mammals
  - b) Large trees
  - c) Birds
  - d) Herbs and grasses
4. Which of the following is the non-renewable energy resource?
  - a) Solar energy
  - b) Wind energy
  - c) Hydropower
  - d) Natural gas
5. What is the most effective and sustainable strategy to tackle Urban Heat Island effect?
  - a) Provide artificial rain
  - b) Plant trees and increase green spaces
  - c) Promote usage of solar energy in urban area
  - d) Reduce the prices of Air conditioners
6. Which of the following is the major contributor of air pollution in Delhi region in India during winter?
  - a) Dust storm
  - b) Industrial emission
  - c) Burning of Agricultural waste
  - d) Emission from Vehicles
7. Which of the following animals is listed as Critically Endangered in India as per IUCN red list?
  - a) Indian elephant
  - b) Snow leopard
  - c) Indian Wolf
  - d) Great Indian bustard
8. Which of the following state correctly describes Archaeobacteria?
  - a) They are prokaryotic and found in extreme environmental conditions
  - b) They are prokaryotic and photosynthetic bacteria
  - c) They are eukaryotic and photosynthetic
  - d) They are prokaryotic and grow in oxygen rich environment

9. What is the concept of Species?
- |                                                |                                                             |                                                        |                                                   |
|------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------|
| a) Organisms that share common characteristics | b) Organisms that interbreed and produce fertile offsprings | c) Organisms that exist in same habitat and share food | d) Organisms that have same number of chromosomes |
|------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------|
10. Which of the following practices can be considered sustainable and environmentally sound?
- |                                                  |                                                                      |                                            |                                              |
|--------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|----------------------------------------------|
| a) Building dams on rivers in eco-sensitive area | b) Promoting cash crop farming to increase economic gains of farmers | c) Tree plantation activities in grassland | d) Intercropping and crop rotation practises |
|--------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|----------------------------------------------|

**Q. 2. Write short notes on. (Any two)**

**(10)**

1. Describe any five types of land degradation.
2. Define the concept of trophic levels in an ecosystem. Describe any three major trophic levels with suitable examples.
3. Explain any 10 threats to biodiversity.

**Q. 3. Write the Answers of the following (Any 4)**

**(20)**

1. Describe any five key functions or services that forests provide to humans.
2. What is ecological succession? Briefly describe its two main types and outline the basic stages of ecological succession.
3. What is a biodiversity hotspot? Mention any two such hotspots found in India and briefly explain their ecological importance.
4. Define the concept of sustainability. In your opinion, what sustainable practices (any 4) should be incorporated in sustainability policy making by government?
5. Identify and explain any five key challenges faced in water management in urban areas.

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