



3898

201  
ALL

## Jharkhand University of Technology, Ranchi

### Diploma 2nd Semester Examination, 2024 (NEP)

Subject : Environmental Sustainability

Subject Code : AUC201

Time Allowed : 3 Hours

Full Marks : 70

*Candidates are required to give their answers in their own words  
as far as practicable.*

*Question No.-1 is compulsory and answer any four  
questions from the rest.*

*All questions are of equal marks.*

1. (i) Biotic components of ecosystems are 2×7=14
- (a) Products (b) Carnivores  
(c) Herbivores (d) All of these
- (ii) Vultures play an important role in the environment as
- (a) Decomposer (b) Carnivore  
(c) Primary consumer (d) Scavenger
- (iii) In mega cities of India, the dominant source of air pollutants is
- (a) Transport Sector (b) Thermal Power  
(c) Municipal Waste (d) None of these
- (iv) What is called for a temporary hearing loss?
- (a) Temporary ear pain (b) Temporary hearing problem  
(c) Temporary threshold shift (d) Temporary hearing shift
- (v) Which of the following techniques is used for reducing the total dissolved solids (TDS) in the water?
- (a) Osmosis (b) Ion exchange  
(c) Distillation (d) Both (b) and (c)
- (vi) Which of the following is/are economic Instrument/s for implementation of the E-waste (Management) Rules, 2016?
1. E-waste exchange  
2. Deposit Refund Scheme
- (a) Only 1 (b) Only 2  
(c) Both (1) and (2) (d) Neither (1) nor (2)



- (vii) Biomass can be used to make \_\_\_\_\_.
- (a) Chemicals (b) Fibres  
(c) Biochemical (d) Transportation fuels
- (viii) If a line is parallel to both H.P. and V.P. its true length will be seen in
- (a) Front view (b) Top view  
(c) Side view (d) Both (a) and (b)
2. (a) What is global warming? What are the causes and effects of global warming?  
(b) What is the Green House Effect and what's the difference between the enhanced greenhouse effect and ozone depletion? 7+7
3. (a) What are the man-made and natural sources of air pollution?  
(b) Explain the Air (prevention and control of pollution) Act 1981. 7+7
4. (a) What is noise pollution? What are the effects of noise pollution on human health?  
(b) Suggest control measures for noise pollution. 7+7
5. (a) What is water pollution? Explain the characteristics of water pollutants.  
(b) Why excessive use of fertilizer is responsible for soil pollution? 7+7
6. (a) What is solar energy and what are the advantages of advanced solar collectors?  
(b) What is the importance of Wind Energy in India with special reference to its uses? 7+7
7. (a) What are the main characteristics of solid waste?  
(b) How does plastic production contribute to the climate crisis? 7+7

