QUESTION BANK

CSVTU UNIVERSITY PATTREN OF EXAMINATION

- Questions will be from each unit. Each unit will have internal choice. Each unit will be of 20 marks.
- A question may consist of minimum 3 parts; A,B,C. The part A will carry 4 marks and shall require very brief answers in 1-2 lines, even one word answer may be asked
- The remaining parts of the question should be set on any one of the following pattern: A- 2 marks & B,C,D (Attempt any two)-8 marks

UNIT I

THE GLOBAL ENVIRONMENTAL ISSUES

- 1. Describe briefly the impact of environment upon human beings & impact of human beings on environment.
- 2. What is population growth, explain its type with graph
- 3. Discuss population growth n context with India.
- 4. What is population Explosion? What should be the objectives of a sound population policy
- 5. What is National Family welfare Programme? Give its importance
- 6. What is value educaton what are important values.
- 7. Give a brief note on HIV
- 8. What do you understand by Animal husbandry and population Stabilization?
- 9. Write short notes on:- Soil erosion, Land Degradation, Salinity ,Overgrazing.

UNIT II NATURAL RESOURCES

- 1. What are natural resources classify them
- 2. What do you mean by Mineral resources? Explain the measures taken for conserving Mineral resources
- 3. Give a brief note on Water resources and its conservation
- 4. Write short Note on:-1. Rainwater harvesting 2.water cycle 3.waterborne disease 4.impact of fluoride on human being 5.land Degradation
- 5. What do you understand by nutrient cycling .explain carbon cycle, sulphur cycle nitrogen cycle?



QUESTION BANK

- 6. What do you mean by deforestation explain its causes and ill effects
- 7. What are different types of material mineral describe the effects of mineral extraction on environment
- 8. Differentiate between:-1.renewable and nonrenewable natural resources
- 2. Afforestation and deforestation

UNIT-III ECOSYSTEM

SHORT ANSWER TYPES: DO AS DIRECTED

- 1. Who devised ecological pyramids?
- 2. The term ecology was coined by------
- 3. The term ecosystem was given by-----
- 4. The branch of science concerned with plant & animal & their relationship with the environment-----
- 5. Study of individual organisms-----
- 6. Study of group of organism-----
- 7. Law of Minimum-----
- 8. Law of Tolerance-----
- 9. Study of soil & its properties-----
- 10. What is Homeostasis?
- 11. Give definitions of :Biome, Ecosystem, Climate, Weather, GPP, NPP
- 12. Universal energy flow model was given by------
- 13. What is Lentic ecosystem & Lotic ecosystem?
- 14. concept of ten % law was given by

- Distinguish between the following: Grazing food chain & detritus food chain. Gross primary productivity & net primary productivity. Food chain & food web
- 2. State various types of ecosystem. Explain the ecological characteristics of pond ecosystem with diagram.
- 3. Define ecosystem. Explain the components/ segments of ecosystem.
- 4. Discuss briefly the social causes of environmental degradation.
- 5. Write short notes:
 - Aquatic ecosystem b. Food web c. Ecological Pyramids.
- 6. What is an ecosystem? Describe in detail forest ecosystem.
- 7. Name the different factors which are responsible for degradation of



QUESTION BANK

environment.

- 8. What is "Food chain"? with examples ,describe the different types of food chains
- 9. Explain the Energy Flow in any ecosystem. Also explain that how food chain can cause a bio-magnification of pollutants?
- 10. Explain & discuss the different types of ecological pyramid
- 11. What is an ecosystem? Discuss pond as an ecosystem.
- 12. Give example of tropic level 1 2 3&4 in the transfer of food energy?
- 13. Draw the various ecological pyramid of forest ecosystem
- 14. Compare grassland and pond ecosystem on the basis of biotic component,
 - producer, consumer and decomposers.
- State various types of ecosystem. explain the ecological characteristics of pond ecosystem with diagram.

UNIT IV BIODIVERSITY

SHORT ANSWER TYPES: DO AS DIRECTED

- 1. What features make a community stable?
- 2.In the past, which factor would have caused a mass extinction of species?
- 3. What is the reason behind the vast diversity in Indian ecology?
- 4. State a difference between endemic and exotic species.
- 5. Differentiate between species diversity and ecological diversity
- 6. What is a gene pool?

- 7. What are the factors that determine a species as threatened.
- 8. Define Biodiversity and classify it.
- 9. State the ways through which humans are benefitted from biodiversity
- 10. Explain how species diversity of an area is reduced by the invasion of an alien species.
- 11. How can the loss of biodiversity be prevented.
- 12. What role does biodiversity play in conservation concepts?



QUESTION BANK UNIT V POLLUTION

SHORT ANSWER TYPES: DO AS DIRECTED

13. Marble leprosy is caused by_____.

1.	Define; pollutant, sink, receptor, smog, soot, fog, mist, dust, Temperature
	inversion , Aerosol, SPM, Lapse rate
2.	Name the compounds whose interaction results in the formation of PAN
3.	The term GHE was first coined by
4.	What is plume?
5.	What is an acid rain?
6.	What are Tsunamis?
7.	An instrument used to measure earthquake intensity
8.	Which gas is responsible for Ozone hole?
9.	What is the temperature range of troposphere?
10	. Richter scale was devised by
11	. The uppermost layer of troposphere is called as
12	The total reflectivity of the earth is technically called as

- 1. Enumerate the principles of air pollution control. Name the various air pollution control techniques.
- 2. What do you understand by pollutants? Describe different types of pollutants
- 3. State the significance of Stratospheric Ozone .Name the ozone depleting substances responsible for the thinning of Ozone layer over Antarctica.
- 4. Name the various pollutants liberated from automobile exhaust .Explain their effect on the biotic & abiotic component.
- 5. Explain the structure of atmosphere with the help of neat diagram.
- 6. Write short notes:
 - Green house effect, Sources of primary pollutants.
 - 7. What is photochemical smog? How it is formed in the atmosphere? Enumerate the adverse effect caused by it.
 - 8. Discuss the various techniques used for controlling gaseous pollutant.
 - 9. Discuss in brief about the sources, harmful effects & control of primary air pollutants, sox & particulate.
 - 10. What is Ozone depletion? What is adverse impact of ozone depletion on



QUESTION BANK

human & other living beings?

- 11. What are the sources of CO & SO2 in the atmosphere? Mention their effects on man & his environment & how are they controlled?
- 12. Give the cause of acid rain .What are its bad effects on environment? Give the steps for controlling acid rain. Effect of acid rain on health & property
- 13. What are green house gases? Name & discuss their contribution to global Warming.
- 14. What is global warming/discuss the role of carbon dioxide, methane, and choloroflurocarbon and oxides of nitrogen in global warming?

WATER POLLUTION

SHORT ANSWER TYPES: DO AS DIRECTED

- 1. Define: DO BOD, COD, Eutrophication, Oxidation pond, sampling.
- 2. Nitrate contamination in water causes _____ disease.
- 3. What causes Itai-Itai disease?
- 4. What causes Minamata disease?
- 5. As contamination causes _____ disease.
- 6. Give two examples of coagulants
- 7. What is an aerated lagoon?
- 8. In the determination of BOD the water sample under test is normally kept in incubator for _____.

- 1. What is Municipal Waste Water treatment? Explain the various stages in this treatment .Describe the objective of secondary treatment process & the working of activated sludge process in detail.
- 2. Define COD .Explain how COD is measured in polluted water .State the significance & limitations of COD.
- 3. Write the significance of DO .Explain the pollution of river by DO sag curve.
- 4. What do you mean by Eutrophication? Write its type, control & effects in brief.
- 5. Discuss an aerobic treatment of water.
- 6. Write short notes on:
- 7. Trickling filter, Hydrological cycle.
- 8. What is the significance of BOD & COD? How are they determined in waste water?
- 9. How is water pollutants classified? Discuss in short the sources & effects of



QUESTION BANK

these pollutants

- 10. Describe anaerobic digestion process of waste water treatment. Give the advantages & limitations of this process
- 11. What are the common primary treatment techniques for sewage? Explain the activated sludge process for sewage with a flow diagram. Mention the advantages & disadvantages of the process
- 12. Write notes: Oxidation pond, Thermal pollution, Heavy metal contamination of water & BOD & COD of water.
- 13. Describe the activated sludge process. State the advantages & disadvantages of the process.
- 14. Name 4 micro organisms involved in the trickling filter of waste water treatment plant.
- 15. Draw a schematic diagram of waste water treatment plant and discuss the steps involved in primary treatment with suitable diagram

 16. Give four sources of water pollution.

LAND AND NOISE POLLUTION SHORT ANSWER TYPES: DO AS DIRECTED

1.	Define: crust, sound , noise , loudness , decibel scale , damping ,
	composting
2.	What do you mean by permissible sound level?
3.	Noise intensity can be measured by
4.	The method used for controlling vibration ,shock, noise is
5.	$L_{w} = 10 \log _{}$
6.	$L_w = 10 \log$ 1 dB = 10 \log^{10}
	Two meter scales of noise measurement
	DESCRIPTIVE TYPE

- 1. How traffic noise can be measured? Suggest the effects & methods of noise pollution control.
- 2. Define Solid waste. Write a brief note on solid waste management & explain what is the 3-R strategy for waste management?
- 3. Distinguish between the following: Composting & sanitary land filling.b) Incineration & pyrolysis
- 4. What is soil pollution? Discuss the various sources of soil pollution.
- 5. What is noise? Discuss the harmful effects of noise



QUESTION BANK

- 6. Write short notes: Incineration, Recycling of solid waste, Permissible noise level Threshold shift, Mufflers, Acoustic enclosers.
- 7. What are the problems on land degradation?
- 8. What is thermal process of disposal of solid waste & also give its advantages & disadvantages?
- 9. What are the physiological & psychological effects of noise?
- 10. Write short notes on The Decibel scale, Use of sound absorption in noise control.
- 11. Describe Lithosphere.
- 12. Define soil pollution. Explain its harmful effects & describe the methods used for controlling.
- 13. What is the value of dB of threshold of hearing of hearing?
- 14. Write the toxic effect of pesticides.
- 15. Draw a neat and labeled diagram of soil profile.

UNIT VI ENVIRONMENTAL RULES AND REGULATIONS

- 1.Discuss the objective of environmental management what are the major components of environmental management
- 2.Explain in brief the environmental impact assessment on the following points
 - 1) Definition
 - 2) Objectives
 - 3) Goals
 - 4) Methodology of EIA
 - 5) Advantages And Disadvantage
- 3. Discuss Briefly Silent Features Of The Environmental Protection Act 1986
 - 4. What are the basic features of the water (prevention and control of pollution) act 1974
 - 5. Discuss the basic feature of the air (prevention and control of pollution) act 1981
 - 6. What is the basic requirement for ISO 14001

QUESTION BANK