b. Chlorides

d. Nitrates

c. Saprophytesd. Productivityj) OSDMA stands for

a. Sodium

c. Fluorides

k) BLUE BABY disease is caused by

a. Odisha State development management authorityb. Odisha State disaster management authorityc. Odisha Soil disaster management authorityd. Odisha Surface disaster management authority

- I) Autecology is defined as
 - a. Study of single species
 - b. Study of communities
 - c. Study of physical environment
 - d. None of these.
- m) Automobile exhaust consist of
 - a. Hydrocarbon, carbon monoxide and nitric oxide
 - b. Lead vapours
 - c. Sulphur dioxide
 - d. Carbon dioxide
- n) Sunlight may be converted into electricity through
 - a. Galvanic cell
 - b. Carbon electrodes
 - c. Photo voltaic cell
 - d. Glass panel
- o) The equitable use of resource is necessary for
 - a. Sustainable development
 - b. Better life style for man
 - c. Sustain natural wealth
 - d. All of these
- **p)** Any material that can be transformed into more valuable and useful and useful product or service is called
 - a. Resource
 - b. Mineral
 - c. Element
 - d. Product
- q) Sundar lal bahugna is known for his association with
 - a. Kerala sastra sahitya parishad
 - b. Chipko movement
 - c. Samaj parivartan samudaya
 - d. Dasholi gram swarajya mandal
- r) Which of the following can be said to be the example of secondary succession
 - a. Pond
- b. Farm
- c. Desert
- d. Forest
- s) Discharge of organic waste water into river will
 - a. Reduce dissolve oxygen
 - b. Reduce pH
 - c. Increase total dissolve solids
 - d. Toxic to humans
- t) Bhopal gas Tragedy was due to leakage of
 - a. Methyl isocyanate (MIC)
 - b. CO
 - c. Both
 - d. None of these

Q2 Answer the following questions

(2 x 10)

- a) What are the three classes of biodiversity according to Whittaker?
- **b)** How are air pollutants classified?
- c) What is an activated sludge process?
- d) What do you mean by thermal pollution?
- **e)** What are primary sedimentation tanks?
- f) what are natural resources? Give the classification on the basis of origin.
- g) Differentiate between Deforestation and desertification.
- **h)** What do you understand by ozone layer?
- i) What is full form of AIDS?
- j) Give the full form of: GPCB, GEC.

Q3	a)	Classify various sources of water pollution. Also write various measures to control water pollution.	(5)
	b) c)	Write the aims and objectives of the "Orissa Environmental Society" Write short note on "KENDU LEAF TRADE" undertaken by the Orisha Government.	(5) (5)
Q4	a)	What do you understand by the term Biogeochemical cycles? Describe water cycle with the help of a neat sketch in detail.	(5)
	b)	Explain the aim and objectives of Air (Prevention and control of pollution) Act 1981.	(5)
	c)	What do you understand by environmental ethics and what are its objectives.	(5)
Q5	a) b) c)	What are the sources of noise pollution. What are the effects of noise pollution. Arrange the following Day time and Night Time	(5) (5) (5)

Cateo	gory of Area	Day time (6 am – 9 pm)	Night time (9 am – 6 am)
Indu	strial Area	70	55
	nercial Area	55	40
	dential Area	50	75
	00 m around premises		65
	cational institutions etc		03
d. Fill in the	Intensity (W/m²)	Intensity level (dB)	# of times greater than TOH
blank	interisity (vv/iii)	intensity level (db)	# or times greater than 1011
Source			
Threshold of			
hearing			
Rustling leaves			
Whisper			
Normal			
conversation			
Large orchestra			
Vacuum			
cleaner			
Walkman at			
maximum level			
Military jet			
takeoff			
Threshold of			
pain			
Busy street			
conversation			
Instant			
perforation of eardrum			
Front row of			_
row concert			

Q6	a)	What are the various goods and services provided by a forest ecosystem? Describe various threats to our forests.	(7.5)
	b)	What are the differences between renewable and non-renewable sources of energy? Explain giving suitable examples.	(7.5)
Q7	a) b) c)	Define the following terms: Smog, Environmental Ethics and Bioaccumulation. Write a short note on Rain water harvesting. Define the term Acid rain. Discuss the various causes and effects of acid rain on the environment.	(5) (5) (5)
Q8	a) b)		
	c)	What are different Greenhouse gases? Discuss the effect of greenhouse gases on environment.	(5)
Q9	a)	Define food chain and food web. Depict a food web with the help of a schematic diagram.	(7.5)
	b)	In your opinion do the various environmental legislations lead to human-wildlife	(7.5)