



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – BBA-2022/BBA(DM)-2022/BBA(HM)-2022/B.Com.(BF)-Hons]-2022/B.Sc. (AM)-Hons-2022/B.Sc.(MSJ)-Hons-2022/B.Sc.(PSY)-Hons-2022

Course Name – Environmental Studies Course Code - ENV101 (Semester I)

Full Marks: 75 Time: 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 25=25

- Choose the correct alternative from the following:
 - (i) State in which of the following ecosystem, the food web involves more species and more trophic levels?

b) Ocean

d)

c) Desert

a) Grassland

- d) Glacier
- (II) The flow of energy in a food chain is
 - a) Unidirectional

b) Bidirectional Multi-directional

c) Cyclic

(iii) The coldest region of atmosphere is

a) Mesosphere

b) Troposhere

c) Stratosphere

- d) Ionosphere
- (iv) Ganga Action Plan was initiated by the prime minister
 - a) Indira Gandhi

b) Narendra Modi

c) Rahul Gandhi

(vi)

d) Rajiv Gandhi

(v) Identify the functions of Forest

a) Accessory function

b) Protective function

c) Productive function d) All the above Eutrophication in lake is due to the presence of

a) Nitrogen and Phosphorus

b) BOD and COD

Chromium and Mercury

DO and bacteria

(vii) State which ecological pyramid is always upright?

a) Pyramid of Number

b) Pyramid of Biomass

c) Pyramid of Energy

d) All the above

(viii) One horned rhino is found in

a) Panna national parkc) Jim Corbett national park(ix) Ozone hole in Antarctica is due to	b) Kaziranga national parkd) Sundarban national park
a) Methanec) CO2(x) Pyramid of energy is always	b) CFC d) Nitrogen
a) Upright c) Horizontal (xi) The second trophic level in a lake is	b) Inverted d) None of the above
a) Benthosc) Zooplanktons(xii) Lapse rate refers to	b) Phytoplanktonsd) Fungi
a) Population increases in area with increase of temperaturec) Temperature increases with increase in elevation	b) Temperature decreases with increase in elevationd) Both temperature decreases and increases with increase in elevation
(xiii) Which of the following regions have maximum b	iodiversity
a) Temperate rainforestc) Tropical rain forest(xiv) 1. Ecosystems consists of	b) Taigad) Mangroves
 a) Only living organisms c) Only insects (xv) Identify the temperature range of troposphere 	b) Living organisms and physical factorsd) Only physical factors
 a) -2 to -92 °C c) -56 to -2 °C (xvi) The maximum quantity of fresh water occurs in 	b) 15 to -56 °C d) -92 to 1200 °C
a) Riverc) Polar ice caps and Glaciers(xvii) Locate the layer present immediately above the	b) Groundwater d) Sea-water earth's surface
a) Tropospherec) Mesosphere(xviii) Which is the basic component that flows in an experience	b) Stratosphere d) Thermosphere ecosystem?'
a) Energyc) Food chain(xix) Interpret Which layer experiences positive lapse	b) Mass d) None of the above e rate?
a) Troposphere and Stratospherec) Stratosphere and Mesosphere(xx) Choose in which layer ionization of gases takes	b) Troposphere and Thermosphere d) Troposphere and Mesosphere place?
a) Tropospherec) Mesosphere(xxi) Which water is available for plant uptake	b) Stratosphered) Thermosphere
a) Gravitational waterc) Combined water(xxii) Hygroscopic water is water that remains after d	b) Capillary waterd) Hygroscopic waterrying of
a) Gravitational waterc) Combined water(xxiii) Which water is not available for plant uptake?	b) Capillary water d) Distilled water
a) Hygroscopic and Combined waterc) Gravitational and Hygroscopic water(xxiv) WAS stands for	b) Hygroscopic and capillary water d) Gravitational and Combined water

(xxv	a) Waste Activated sludgec) Waste affected slurry) The maximum sustainable yield is obtained when	b) Waste Activated system d) Waste activation stock the population is			
	a) Half of the carrying capacity c) Two-third of the carrying capacity	b) Double of the carrying capacity d) Three-fourth of the carrying capacity			
	Group-B (Multiple Choice Type Question) 2 x 10=20				
2.	Choose the correct alternative from the following	,,			
(i)	What radiations are absorbed by Carbon dioxide and Ozone				
(ii)	a) Ultrared and Infraviolet radiationsc) Infrared and Ultraviolet radiationsThe type of pollution and phenomenon of marble c	b) Ultraviolet and Infrared radiationsd) None of these ancer is due to			
(iii)	 a) Air pollution and CFCs b) Water pollution and Fog c) Air pollution and Base Rain d) Air pollution and Acid Rain Which of the following gas affects human health by reducing the blood's ability to carry oxygen to different parts of the body? 				
(iv)	a) Carbon dioxidec) Carbon monoxideBhopal gas tragedy was caused by the leakage	b) Nitrogen dioxide d) Nitrous dioxide age of			
(v)	a) Methyl isocyanate in 1985c) Methyl isocyanate in 1984Analyze the toxins that biologically magnify	b) 2-4 dichlorophenoxyacetic acid in 1984 d) Hydrogen cyanide in 1984 or accumulate in organisms are:			
(vi)	a) Heavy metals and Carbon dioxidec) Fat and CFC'sGreen muffler and Greenhouse effect are re	b) Mercury and DDT d) None of these elated to			
	a) Air pollution and involves in photosynthesis	b) Soil pollution and emits light			
	c) Water pollution and traps UV radiation	d) Noise pollution and traps infrared radiation			
(vii)	A 5 % solution of a sewage sample is incubated for swage if the depletion of oxygen was found to be				
(viii)	a) 100 %c) 100 ppmGreen muffler and Greenhouse effect are re	b) 25 mg/l d) 100 g/l lated to			
	a) Air pollution and involves in photosynthesis	b) Soil pollution and emits light			
	c) Water pollution and traps UV radiation	d) Noise pollution and traps infrared radiation			
(ix)		•			
(x)	a) Cadmium-Mercury-Nitratec) Nitrate-Cadmium-MercuryJustify the 'Ozone hole' means and its result	b) Mercury-Nitrate-Cadmium d) Mercury-Cadmium-Nitrate :.			
	a) Increase in the concentration of ozone and Acid rainc) Same concentration of ozone and Greenhouse effect	b) Decrease in the concentration of ozone and Global warmingd) Hole in the stratosphere and UV radiations reach the earth			

Group-C (Multiple Choice Type Question)

3.	Choose the correct diternative from the following) :	
(i)	E coli used as an indicator organism to determine	ne pollution of water with	
	a) Industrial effluents	b) Heavy metals <p style="margin:0cm;margin-bottom:.0001pt"> <o:p></o:p></p 	
(ii)	c) Pollen of aquatic plants Manmade resources are alternative to nature reasons. Which of these would not be one of	d) Faecal matter ural resources for a variety of	
	a) They increase variety and choice	b) They are cheaper to produce than natural resources	
	c) They are made from renewable resources	d) They are better suited for the purpose for which they will be used	
(iii)	Which is the correct option the Amazon ra	in forest?	
	I. In this rain forest there might be at least two million insects species waiting to be discovered and named.II. This forest is known as lungs of the planet.III. In this forest digging of mine is performed by dynamine.		
	IV. This forest are destroyed for the cultivation of soyabeans.		
	V. This forest contains world famous Biodi	versity	
	a) i, ii, iv, v c) ii, iii, iv, v	b) i, ii, iii, iv d) iii, v, iv	
(iv)	Which of the following statements regardi lowest degree of certainty?	ng the greenhouse effect has the	
	a) Addition of greenhouse gases to the atmosphere results in increased heat energy in the atmosphere	b) Global warming will result in an increase in the number of tropical storms	
	c) Global warming will result in rising sea levels	d) The concentrations of greenhouse gases in the atmosphere are increasing due to human activities.	
(v)	A fabric filter is to be constructed using ba		
	m long. The bag house is to receive 5 m ³ /s of air. Filtering velocity is 2.0 m/min. Determine the minimum number of bags required for continuous removal of particulate matter.		
	a) 96	b) 106	
(vi)	c) 78 Identify the correct sequence in decreasing or in the following locations:	d) 88 der of percentage of total world's water	
	(A) Atmosphere		
	(B) Rivers and Streams		
	(C) Ground water		
	(D) Lakes (Fresh water)		
	(E) Ice Caps and Glaciers		
	Choose the correct answer from the options given below		

- a) (E), (C), (B), (D), (A)
- c) (E), (D), (C), (B), (A)

- b) (E), (B), (C), (D), (A)
- d) (E), (C), (D), (A), (B)

(vii) Select the correct statement about biodiversity

- a) The desert areas of Rajasthan and Gujarat have a very high level of desert animal species as well as numerous rare animals
- c) Western Ghats have a very high degree of species richness and endemism
- Large scale planting of BT cotton has no adverse effect on biodiversity
- d) Conservation of biodiversity in just a fad pursued by the developed countries
- (viii) Peroxy-acetyl nitrate (PAN) is formed by the reaction of two primary pollutant, namely nitrogen oxide and _____ released from motor in the presence of sunlight.
 - a) hydro-neutron

b) hydro-carbon

c) water-carbons

- d) SO2
- (ix) Given below are two statements: One is levelled as Assertion (A) and the other is levelled as Reason (R): Assertion (A): The problem of organic in rivers is usually worse in hot summer months. Reason (R): Higher water temperatures exacerbate oxygen depletion. In the light of the above statements, choose the most appropriate answer from the options below:
 - a) Both (A) and (R) are true and (R) is the correct explanation of (A).
 - c) (A) is correct but (R) is not correct
- b) Both (A) and (R) are true and (R) is not the correct explanation of (A)
- d) (A) is not correct but (R) is correct.
- (x) Which of the following statements regarding the greenhouse effect has the lowest degree of certainty?
 - a) Addition of greenhouse gases to the atmosphere results in increased heat energy in the atmosphere
 - Global warming will result in rising sea levels
- b) Global warming will result in an increase in the number of tropical storms
- d) The concentrations of greenhouse gases in the atmosphere are increasing due to human activities.
