



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – B.Optomety-2022/B.Physiotherapy-2022/B.Sc.(CCT)-2022/B.Sc.
(MLT)-2022/B.Sc.(MRIT)-2022/B.Sc.(OTT)-2022/B.Sc.(PA)-2022

Course Name – Environmental Science

Course Code - EVS101

(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

1. Choose the correct alternative from the following :

- (i) The best method of disposal of biodegradable nonhazardous solid waste is
- | | |
|-----------------|----------------------|
| a) Open dumping | b) Sanitary landfill |
| c) Incineration | d) Composting |
- (ii) Which one is an example of abiotic component of ecosystem?
- | | |
|-------------|-----------------|
| a) Sunlight | b) Animal |
| c) Tree | d) Human beings |
- (iii) Choose the other name for infectious diseases.
- | | |
|-------------------------------|--------------------------|
| a) Non-communicable diseases | b) Communicable diseases |
| c) Non-transmissible diseases | d) Heredity diseases |
- (iv) When operating a fire extinguisher, remember the mnemonic PASS. Select the correct option for mnemonic PASS.
- | | |
|---------------------------------|-------------------------------|
| a) Pull, Aim, Squeeze, Sweep | b) Pull, Access, Seize, Sweep |
| c) Plan, Access, Squeeze, Swing | d) Pin, Aim, See, Swing |
- (v) Air pollutant which reduces oxygen carrying capacity of hemoglobin is
- | | |
|----------------------|------------|
| a) Carbon monoxide | b) Ammonia |
| c) Hydrogen sulphide | d) Methane |
- (vi) Report in which year OSHA was established
- | | |
|---------|---------|
| a) 1956 | b) 1970 |
| c) 1982 | d) 1882 |
- (vii) Solve how many percentage of water approximately present in human body?
- | | |
|------------|-----------|
| a) fifty | b) sixty |
| c) Seventy | d) Eighty |
- (viii) Write down the correct option regarding Good work practices
- | | |
|---|---|
| a) smelling and tasting chemicals | b) . not washing hands before and after lab |
| c) confining long hair and loose clothing | d) using damaged equipment and glassware |
- (ix) Write the odd one as Examples of personal protective equipment
- | | |
|-----------------------|---------------------------|
| a) long-sleeve shirts | b) goggles and long pants |
|-----------------------|---------------------------|

- c) lab coats
 (x) Validate the correct option . Cloth or leather gloves are appropriate
 a) when working around steam
 c) never in the laboratory
 d) contact lenses
 b) when working with hazardous chemicals
 d) only 1 & 2
- (xi) Validate the function of Microbiology Laboratories
 a) Deals with bacteria and toxins
 c) Deals with blood samples
 b) Deals with biochemical basis of diseases
 d) Deals with industry wastes
- (xii) Write the correct option for blood bank
 a) Non-clinical purpose
 c) Blood Grouping
 b) Curative purpose
 d) Teaching purpose
- (xiii) Express your opinion about the location of OPD in hospitals
 a) At the topmost floor
 c) Beside the operation theatre
 b) At the entrance
 d) Beside ICU
- (xiv) The causes of landslide is not due to
 a) Deforestation
 c) Industrialisation
 b) Road construction
 d) Noise pollution
- (xv) Incineration is a disposal method of
 a) Water Pollutant
 c) Solid Waste
 b) Air Pollutant
 d) Noise pollutant

(xvi)

Which one is secondary pollutant?

- a) Smog
 c) Ozone
 b) PAN
 d) All of the above
- (xvii) The name of the disease that occurs due to mercury pollution is
 a) Minamata disease
 c) Ouch-ouch disease
 b) Skin cancer
 d) Kidney damage
- (xviii) Montreal Protocol is related to
 a) Land pollution
 c) Production and use of CFCs
 b) Noise Pollution
 d) Increase of population
- (xix) Water is called polluted when DO level drops below
 a) 5 ppm
 c) 10 ppm
 b) 8 ppm
 d) 15 ppm
- (xx) Example of ex-situ conservation is
 a) Conservation of plants in botanical garden
 c) Sunderbans
 b) Conservation of animals in zoo
 d) Both conservation of plants in botanical garden and conservation of animals in zoo
- (xxi) The abnormal growth and activities of a cell may cause
 a) Cancer
 c) Cholera
 b) Typhoid
 d) Malaria
- (xxii) Ozone acts as a protective shield when it resides in
 a) Mesosphere
 c) Thermosphere
 b) Stratosphere
 d) Troposphere
- (xxiii) The audio range of human is
 a) 20-20,000 Hz
 c) 2000-5000 Hz
 b) 200-20,000 Hz
 d) 500-5500 Hz
- (xxiv) A biotic factor of eco-system is
 a) Sunlight
 c) Soil
 b) Wind
 d) Tree
- (xxv) Hydrosphere consists of
 a) Air layer
 b) Rocks

c) Soil

d) Water bodies and oceans

Group-B

(Multiple Choice Type Question)

2 x 10=20

2. Choose the correct alternative from the following :

- (i) An ecological state wherein a species is introduced to a location where they are unique is called
- a) Ecosystem
b) Exotic species
c) Endemic species
d) Endangered species
- (ii) Which one of the following is a result of overpopulation?
- a) Adequate storage of natural resources
b) Pressure on land and other renewable resources
c) Increasing the amount of forest
d) Decrease the shortage of water
- (iii) Atmosphere maintain the temperature of the earth because
- a) It contains water vapour
b) It holds air, which is a bad conductor heat
c) It reflects the heat rays
d) It absorbs the heat rays
- (iv) Kyoto Protocol is related to
- a) Ozone layer depletion
b) Greenhouse gases
c) SPM
d) Water pollution
- (v) Renewable energy often replaces conventional fuels in which of the following area?
- a) Space heating
b) Locomotives
c) Electricity generation
d) All of the above
- (vi) Which of the following two regions from India are included as hotspots?
- a) Eastern Himalayas and Western Ghat
b) Western Himalayas and Eastern Ghats
c) Northern Himalayas and Eastern Ghats
d) Southern Himalayas and Western Ghats
- (vii) Which of the following is not the criterion to be a biodiversity hotspot?
- a) It must have natural habitat
b) It must contain >1500 endemic species
c) It must be a part of developing country
d) All of the above
- (viii) Food chain is an example of
- a) Biochemical interaction
b) Biological interaction
c) Ecological interaction
d) Mixed interaction
- (ix) Which of the following pyramid can never be inverted in a natural ecosystem?
- a) Pyramid of number
b) Pyramid of energy
c) Pyramid of biomass
d) Can never be said
- (x) Plants capture approximately.....of the Sun's energy while other tropic levels capture aboutof the energy available to them in their food.
- a) 1%, 10%
b) 10%, 60%
c) 10%, 1%
d) 60%, 10%

Group-C

(Multiple Choice Type Question)

3 x 10=30

3. Choose the correct alternative from the following :

- (i) Electrical energy is generated from solar energy, tidal energy and wind energy, respectively, by
- a) Photovoltaic cells, mills, turbines
b) Turbines, mills, photovoltaic cells
c) Photovoltaic cells, turbines, mills
d) Cannot be determined
- (ii) Which statement is incorrect with respect to food chain?
- a) Every component of the food chain forms a trophic level
b) Interconnected food chains are known as food web
c) All the chains formed by nutritional relations are used to understand the energy flow
d) The energy flow in the food chain is multi-directional

