



# BRAINWARE UNIVERSITY

**Term End Examination 2021 - 22**  
**Programme – Bachelor of Optometry**  
**Course Name – Environmental Science**  
**Course Code - EVS201**  
**( Semester II )**

**Time allotted : 1 Hrs.30 Min.**

**Full Marks : 75**

[The figure in the margin indicates full marks.]

**Group-A**

(Multiple Choice Type Question)

1 x 75=75

*Choose the correct alternative from the following :*

- (1) Incineration is a disposal method of
 

a) Water pollutant	b) Air pollutant
c) Solid waste	d) Noise pollutant
- (2) Which one is secondary pollutant?
 

a) Smog	b) PAN
c) Ozone	d) All of these
- (3) The name of the disease that occurs due to mercury pollution is
 

a) Minamata disease	b) Skin cancer
c) Ouch ouch disease	d) Kidney damage
- (4) Montreal Protocol is related to
 

a) Land pollution	b) Noise Pollution
c) Production and use of CFCs	d) Increase of population
- (5) Water is called polluted when DO level drops below
 

a) 5ppm	b) 8ppm
c) 10ppm	d) 15ppm
- (6) The abnormal growth and activities of a cell may cause
 

a) Cancer	b) Typhoid
c) Cholera	d) Malaria
- (7) Ozone acts as a protective shield when it resides in
 

a) Mesosphere	b) Stratosphere
c) Thermosphere	d) Troposphere
- (8) The audio range of human is
 

a) 20-20,000 Hz	b) 200-20,000 Hz
c) 2000-5000 Hz	d) 500-5500 Hz
- (9) A biotic factor of eco-system is
 

a) Sunlight	b) Soil
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- c) Wind  
d) Tree
- (10) Hydrosphere consists of  
a) Air layer  
b) Rocks  
c) Soil  
d) Water bodies and oceans
- (11) Green House gas is  
a) Carbon monoxide  
b) Water vapour  
c) Nitrous oxide  
d) All of these
- (12) Ozone hole in Antarctica is due to  
a) Methane  
b) CFC  
c) Carbon dioxide  
d) Nitrogen
- (13) Grassland ecosystem is occupied by nearly..... of Earth surface  
a) 21%  
b) 50%  
c) 70%  
d) 80%
- (14) The most potentially renewable energy resource is  
a) Sunlight  
b) Wind  
c) Tidal energy  
d) Biomass
- (15) The coldest region of atmosphere is  
a) Troposphere  
b) Ionosphere  
c) Mesosphere  
d) Stratosphere
- (16) Kyoto Protocol is related to  
a) Ozone layer depletion  
b) Green house gases  
c) SPM  
d) Water pollution
- (17) Itai itai disease occurs due to  
a) Arsenic pollution  
b) Lead pollution  
c) Mercury pollution  
d) Cadmium pollution
- (18) Which one is primary pollutant?  
a) Carbon monoxide  
b) PAN  
c) Ozone  
d) Smog
- (19) Lithosphere means  
a) Air  
b) Organisms  
c) Water  
d) Rocks and soils
- (20) The loss of chlorophyll causing yellowing of leaf is  
a) Chlorosis  
b) Chlorolysis  
c) Photosynthesis  
d) Cholera
- (21) pH of the acid rain varies between  
a) 3-6  
b) 9-11  
c) 11-14  
d) 6-9
- (22) A lake rich of nutrient is called  
a) Oligotrophic lake  
b) Mesotrophic lake  
c) Eutrophic lake  
d) Aziotrophic lake
- (23) The hottest region of the atmosphere is  
a) Troposphere  
b) Ionosphere  
c) Mesosphere  
d) Stratosphere
- (24) World Environment Day is observed every year on  
a) June 5  
b) July 5  
c) August 5  
d) September 5
- (25) Maintaining and judiciously using the environment for human purposes is called

- a) Conservation of atmosphere  
c) Maintenance of atmosphere
- b) Maintenance of environment  
d) Conservation of environment
- (26) The noise threshold limit values for 16 hours is  
a) 80 dB  
c) 90 dB
- b) 100 dB  
d) 110 dB
- (27) A young 18 year old person has the audio range between  
a) 20-20000 Hz  
c) 40-40000 Hz
- b) 30-30000 Hz  
d) 50-50000 Hz
- (28) A person might be killed if the sound is  
a) 120 dB  
c) 130 dB
- b) 140 dB  
d) 150 dB
- (29) What is the name of instrument by which sound can measure in dB?  
a) Sound level meter  
c) Thermometer
- b) Viscometer  
d) Sound pressure meter
- (30) The physical component of eco-system is  
a) Carbon  
c) Oxygen
- b) Light  
d) Nitrogen
- (31) Forest mainly have  
a) Protective function  
c) Accessory function
- b) Productive function  
d) All of these
- (32) Which pyramid is always an upright one?  
a) Pyramid of energy  
c) Pyramid of biomass
- b) Pyramid of number  
d) Pyramid of number and biomass
- (33) The Montreal protocol is related to  
a) Land pollution  
c) Water pollution
- b) Atmospheric pollution  
d) Noise pollution
- (34) The maximum quantity of fresh water occurs in  
a) Rivers  
c) Polar ice caps and glaciers
- b) Ground water  
d) Sea water
- (35) Which one of the following can be used for disinfection of water?  
a) Chlorine  
c) Hydrogen peroxide
- b) Ozone  
d) Both chlorine and ozone
- (36) Eutrophication means  
a) Thermal change of water  
c) Filling up of water bodies with aquatic plants due to less nutrient
- b) Filling up of water bodies with aquatic plants due to extra nutrient  
d) Solid waste
- (37) Greenhouse effect is due to  
a) Over cultivation of land  
c) Some atmospheric gases like CO<sub>2</sub>, N<sub>2</sub>O and some man-made gases
- b) Testing nuclear weapons  
d) Soil pollution
- (38) BOD means  
a) Biological oxygen demand  
c) Biggest oxygen demand
- b) Biochemical oxygen demand  
d) Bio oxygen dissolved
- (39) Which one of the following ozones is harmful to public health?  
a) Stratospheric ozone  
c) Laboratory ozone
- b) Tropospheric ozone  
d) Lithospheric ozone

- (40) Which of the following is not biodegradable?
- a) Polythene
  - b) Cotton
  - c) Vegetable waste
  - d) Wood
- (41) Contaminated water causes disease due to
- a) Increase of pathogens
  - b) Increase of BOD
  - c) Increase of COD
  - d) Increase of DO
- (42) The important component of environment is
- a) Biosphere
  - b) Lithosphere
  - c) Atmosphere
  - d) All of these
- (43) Biotic factor is related to
- a) Living organisms
  - b) Non living organisms
  - c) Both living and nonliving organisms
  - d) Fungus
- (44) Energy flow in an ecosystem is
- a) Unidirectional
  - b) Cyclic
  - c) May be unidirectional or cyclic depending on condition
  - d) Can not be said
- (45) The main component of photochemical smog
- a) Water vapour
  - b) Sulphur dioxide
  - c) Oxides of nitrogen
  - d) Chlorine
- (46) The main pathogen present in contaminated water is
- a) Bacteria
  - b) Algae
  - c) Protozoa
  - d) All of these
- (47) The most toxic chemical as carcinogen is
- a) Carbon tetrachloride
  - b) Vinyl chloride
  - c) Tetrachloro ethylene
  - d) Trichloro ethylene
- (48) Hazardous waste should have characteristics
- a) Reactivity
  - b) Corrosivity
  - c) Toxicity
  - d) All of these
- (49) The best method of disposal of nonhazardous solid waste is
- a) Open dumping
  - b) Sanitary land filling
  - c) Incineration
  - d) Composting
- (50) The various factors of environment are
- a) Physical factor
  - b) Chemical factor
  - c) Biological factor
  - d) All of these
- (51) Examples of second trophic level organism is
- a) Plant
  - b) Small fish
  - c) Tiger
  - d) Lion
- (52) Sound wave is an example of
- a) Transverse wave
  - b) Longitudinal wave
  - c) Electromagnetic wave
  - d) Static wave
- (53) Example(s) of conventional type of renewable resources may be
- a) Plant
  - b) Wildlife
  - c) Aquaculture
  - d) All of these
- (54) The unit of measuring hardness is
- a) ppm
  - b) gm/litre
  - c) mole/litre
  - d) mole/kg
- (55) By using photovoltaic cell solar energy can be converted into

- a) Thermal energy  
b) Mechanical energy  
c) Electrical energy  
d) Wind energy
- (56) The example of primary consumer is  
a) Plant  
b) Cow  
c) Tiger  
d) Snake
- (57) The Sunderban mangrove forest in west Bengal is located in the district of  
a) Midnapur  
b) Birbhum  
c) Nadia  
d) 24 parganas
- (58) Aircraft noise is measured by  
a)  $L_{10}$  (18 hrs) index  
b)  $L_{eq}$   
c)  $L_{epn}$   
d)  $L_{aq}$
- (59) The temperature range of troposphere is  
a) -2 to -92 °C  
b) 15 to -56 °C  
c) -56 to -2 °C  
d) -92 to 1200 °C
- (60) Density of water is maximum at  
a) 0 °C  
b) 4 °C  
c) 100 °C  
d) -4 °C
- (61) With increase in temperature the DO in water  
a) Decreases  
b) Increases  
c) Remains same  
d) Can not be predicted
- (62) Which of the following type(s) of Personal Protective Equipment (PPE) is frequently used?  
a) Safety glasses  
b) Gloves  
c) Lab Coats  
d) All of the options are true
- (63) The species used as screening of chemicals.  
a) Zebra fish  
b) *Folsomia candida*  
c) *Enchytraeus albidus*  
d) Cat Fish
- (64) Eco-toxicology is the study of  
a) Physical interactions of organism and environment  
b) Thermal interactions of organism and environment  
c) Biological interactions of organism and environment  
d) Chemical interactions of organism and environment
- (65) Which of the following air pollution control device has maximum efficiency?  
a) Spray tower  
b) Wet cyclonic scrubber  
c) Dynamic precipitator  
d) Electrostatic precipitator
- (66) What is Neutron ray?  
a) They are produced in UV rays  
b) They are produced in atoms bombs and nuclear reactors.  
c) They are produced in Gamma ray chamber  
d) They are produced in hospitals
- (67) Which of the following is pathological waste product?  
a) Blood  
b) Chemicals used in hospital  
c) Saline  
d) Blood and stains
- (68) What do you mean by Genotoxic Waste?  
a) Any drugs  
b) Cytotoxic drugs  
c) Chemotherapeutic drugs  
d) All medicines
- (69) What is medical waste?  
a) Medical instruments  
b) Chemicals used in hospital  
c) By-product of healthcare work  
d) Plastics

- (70) Which of the following is carcinogenic pollutant?
- a) Methyl ring containing compounds
  - b) Polycyclic aromatic hydrocarbon
  - c) Hydrocarbons
  - d) Aromatic compounds
- (71) Sick building syndrome occurs in
- a) Students
  - b) Office workers
  - c) Traveler
  - d) Common people
- (72) From which component pollution occurs in Histopathology Laboratory?
- a) Wax
  - b) Fixatives
  - c) Stains and dyes
  - d) Specimen and Formaline
- (73) APTI is highest among these medicinal plants- *Bauhinia variegata*, *Syzygium cumini*, *Emblica officinalis*, *Phyllanthus acidus*, *Aegle marmelos*, *Prosopis cineraria*, and *Vitex negundo* and five fruit plant species such as *Psidium guajava*, *Artocarpus heterophyllus*, *Manilkara zapota*, *Punica granatum*, and *Carica papaya* -
- a) *Emblica officinalis*
  - b) *Syzygium cumini*
  - c) *Artocarpus heterophyllus*
  - d) All statements are false
- (74) What do you mean by APTI?
- a) Air Pollution Time Index
  - b) Air Pollution Type Index
  - c) Air Pollution Technical Index
  - d) Air Pollution Tolerance Index
- (75) The common cause of air pollution is
- a) Automobile pollution
  - b) Noise
  - c) Water pollution
  - d) CO<sub>2</sub> exhaustion from body