



# BRAINWARE UNIVERSITY

**Term End Examination 2021 - 22**

**Programme – Bachelor of Technology in Computer Science & Engineering**

**Course Name – Environmental Science**

**Course Code - MC-2**

**( 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) Which one is secondary pollutant?
 

a) Smog	b) PAN
c) Ozone	d) All of these
- (2) 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
- (3) Water is called polluted when DO level drops below
 

a) 5 ppm	b) 8 ppm
c) 10 ppm	d) 15 ppm
- (4) Niche refers to
 

a) Habitat of a number of aquatic species	b) Habitat of a number of land species
c) Habitat of a single species	d) Both (a) and (b)
- (5) The abnormal growth and activities of a cell may cause
 

a) Cancer	b) Typhoid
c) Cholera	d) Malaria
- (6) A biotic factor of eco-system is
 

a) Sunlight	b) Soil
c) Wind	d) Tree
- (7) Hydrosphere consists of
 

a) Air layer	b) Rocks
c) Soil	d) Water bodies and oceans
- (8) Ozone hole in Antarctica is due to
 

a) Methane	b) CFC
c) Carbon dioxide	d) Nitrogen
- (9) Grassland ecosystem is occupied by nearly..... of Earth surface
 

a) 21%	b) 50%
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- c) 70%  
d) 80%
- (10) The coldest region of atmosphere is  
a) Troposphere  
b) Ionosphere  
c) Mesosphere  
d) Stratosphere
- (11) The most potentially renewable energy resource is  
a) Sunlight  
b) Wind  
c) Tidal energy  
d) Biomass
- (12) Example of natural event that cause environmental degradation is  
a) Volcanic eruption  
b) Earthquake  
c) Cyclone  
d) All of these
- (13) The main component of air is  
a) Nitrogen  
b) Oxygen  
c) Carbon dioxide  
d) Water vapour
- (14) Bhopal gas tragedy occurred in  
a) December 1984  
b) December 1983  
c) July 1984  
d) July 1983
- (15) Itai-itai disease occurs due to  
a) Arsenic pollution  
b) Lead pollution  
c) Mercury pollution  
d) Cadmium pollution
- (16) To monitor the state level environmental issues and problems, Supreme court of India has established  
a) Green bench  
b) Pollution Control Board  
c) Department of Environment  
d) Department of Biotechnology
- (17) Medha Patekar is related to  
a) Chipko Movement  
b) Narmoda Bachao Movement  
c) Operation Flood  
d) Green revolution
- (18) Example of in-situ conservation is  
a) Deer park  
b) Seed bank  
c) Wild life sanctuary  
d) Aquarium
- (19) Air pollutant which reduces oxygen carrying capacity of hemoglobin is  
a) Carbon monoxide  
b) Ammonia  
c) Hydrogen sulphide  
d) Carbon dioxide
- (20) The main source of water in India for agricultural purposes is  
a) Rain water  
b) Ground water  
c) Surface water  
d) Sea water
- (21) How many hot spots of biodiversity are present in India?  
a) Four  
b) Two  
c) Three  
d) Five
- (22) pH of the acid rain varies between  
a) 3-6  
b) 9-11  
c) 11-14  
d) 6-9
- (23) The non-renewable energy resource is  
a) Sunlight  
b) Wind  
c) Wild-life  
d) Fossil fuels
- (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
- Conservation of atmosphere
  - Maintenance of environment
  - Maintenance of atmosphere
  - Conservation of environment
- (26) Aircraft noise is measured by
- $L_{10}$  (18 hrs) index
  - $L_{eq}$
  - $L_{epn}$
  - $L_{oq}$
- (27) In what medium sound can propagate fast?
- Gas
  - Solid
  - Liquid
  - Wood
- (28) Forest mainly have
- Protective function
  - Productive function
  - Accessory function
  - All of the above
- (29) Which one is the example of 'climate factor' in below?
- Light
  - Altitude of mountain
  - Structure of soil
  - All of these
- (30) Which pyramid is always an upright one?
- Pyramid of energy
  - Pyramid of number
  - Pyramid of biomass
  - Pyramid of number and biomass
- (31) Symbiotic bacteria is
- Rhizobium
  - Anabaena
  - Both a and b
  - None of these
- (32) Which form of nitrogen is taken by plant?
- Nitrate ( $\text{NO}_3^-$ )
  - Nitrite ( $\text{NO}_2^-$ )
  - Both (a) and (b)
  - Nitric acid ( $\text{HNO}_3$ )
- (33) Main component of mesosphere is
- $\text{CO}_2$
  - $\text{NO}^+$
  - $\text{O}_2^+$
  - Both b and c
- (34) The main component of stratosphere is
- $\text{O}_3$
  - $\text{H}_2^+$
  - $\text{NO}$
  - $\text{N}_2$
- (35) The coenzyme responsible for conversion of mercury to methyl mercury is
- Vitamin  $\text{B}_{12}$
  - Vitamin C
  - Vitamin D
  - Vitamin E
- (36) Acid which may act as buffer is
- $\text{H}_2\text{CO}_3$
  - $\text{HCl}$
  - $\text{HNO}_3$
  - $\text{H}_2\text{SO}_4$
- (37) The decomposition of dead-bodies of animal and plant by the bacteria such as bacillus subtilis is known as
- Ammonification
  - Nitrification
  - Carbonification
  - Oxygenation
- (38) The maximum quantity of fresh water occurs in
- Rivers
  - Ground water
  - Polar ice caps and glaciers
  - Ocean
- (39) Eutrophication means

- a) Thermal change of water  
b) Filling up of water bodies with aquatic plants due to extra nutrient
- c) Solid waste  
d) None of these
- (40) BOD means  
a) Biological oxygen demand  
b) Biochemical oxygen demand  
c) Biggest oxygen demand  
d) Bio oxygen dissolved
- (41) Identify the primary constituent of smog  
a) Water  
b) Carbon dioxide  
c) Sulphur dioxide  
d) Hydrogen sulphide
- (42) Which one is the intensity level of noise?  
a) Centimeter  
b) Newton  
c) Decibel  
d) Watt
- (43) Tree hugging movement is  
a) Chipko movement  
b) Silent valley movement  
c) Narmoda dam movement  
d) Tehri dam conflict
- (44) COD test is more scientific than BOD test because  
a) It is not related to microorganism  
b) It is related to microorganism  
c) It is related to both microorganism and oxidizing species  
d) It is related to oxidizing chemicals
- (45) Density of water is maximum at  
a) 0 °C  
b) 4 °C  
c) 100 °C  
d) 200 °C
- (46) Energy flow in an ecosystem is  
a) Unidirectional  
b) Cyclic  
c) May be unidirectional or cyclic depending on condition  
d) Cannot be said
- (47) The main component of photochemical smog  
a) Water vapour  
b) Sulphur dioxide  
c) Oxides of Nitrogen  
d) Methane
- (48) The imaginary line between crust and mantle is  
a) Moho discontinuity  
b) Conrad discontinuity  
c) Gutenberg discontinuity  
d) Seismic discontinuity
- (49) The main component of soil is  
a) Oxygen  
b) Silicon  
c) Potassium  
d) Iron
- (50) The noise threshold limit value of sound level 110 Db is  
a) 15 minutes  
b) 8 hours  
c) 30 minutes  
d) 2 hours
- (51) The various factors of environment are  
a) Physical factor  
b) Chemical factor  
c) Biological factor  
d) All of the above
- (52) Examples of second trophic level organism is  
a) Plant  
b) Small fish  
c) Tiger  
d) Lion
- (53) Sound wave is an example of  
a) Transverse wave  
b) Longitudinal wave  
c) Electromagnetic wave  
d) Static wave

- (54) Example of conventional type of renewable resources may be
- a) Plants
  - b) Wildlife
  - c) Aquaculture
  - d) All of the above
- (55) Phosphorus is the main constituent of
- a) ATP
  - b) ADP
  - c) Both ATP and ADP
  - d) APT
- (56) By using photocell solar energy can be converted into
- a) Thermal energy
  - b) Mechanical energy
  - c) Electrical energy
  - d) All of the above
- (57) The main attribute of population growth is
- a) Birth rate
  - b) Immigration rate
  - c) Emmigration rate
  - d) Death rate
- (58) The ecological factors can be
- a) Wind
  - b) Light
  - c) Humidity
  - d) All of the above
- (59) The most toxic volatile organic compound is
- a) Vinyl chloride
  - b) Carbon tetrachloride
  - c) Chloroethane
  - d) Methane
- (60) The thickness of mantle is about
- a) 2800 km
  - b) 5000 km
  - c) 1000 km
  - d) 10,000 km
- (61) The exchange of mass and energy takes place in
- a) Closed system
  - b) Open system
  - c) Isolated system
  - d) Homogenous system
- (62) The BOD reaction gets completed in
- a) 45 minutes
  - b) 10 hours
  - c) 100 hours
  - d) Never gets completed
- (63) Picture plant is an example of
- a) Epiphytes
  - b) Symbionts
  - c) Commensals
  - d) Parasites
- (64) In poor countries the TFR values most approximately is
- a) 7.0
  - b) 1.5
  - c) 3.5
  - d) 0.5
- (65) Water will be considered saline if the TDS value is
- a) <1500mg/l
  - b) >5000mg/l
  - c) <500mg/l
  - d) <100mg/l
- (66) In USG the wave used is
- a) Sound wave
  - b) Light wave
  - c) Heat wave
  - d) Water wave
- (67) The environmental protection act was introduced in
- a) 1980
  - b) 1984
  - c) 1985
  - d) 1986
- (68) The components of environmental auditing are
- a) Assessment
  - b) Verification
  - c) The Audit process
  - d) Assessment, verification, audit
- (69) The Sunderban mangrove forest in west Bengal is located in the district of
- a) Midnapur
  - b) Birbhum

- c) Nadia  
d) 24 Paraganas
- (70) Tundra occurs due to  
a) Low temperature and low moisture  
b) Low temperature and high moisture  
c) High rainfall and high moisture  
d) Moderate rainfall and moderate temperature
- (71) The most unwanted MSW can be  
a) Metals  
b) Papers  
c) Plastics  
d) Glasses
- (72) The most beautiful planet in the Solar system is  
a) Earth  
b) Mars  
c) Venus  
d) Jupiter
- (73) HCFC is less stable compared to CFC due to  
a) Hydrogen bond  
b) Covalent bond  
c) Coordinate bond  
d) Ionic bond
- (74) Organomercury is an example of  
a) Fungicide  
b) Fumigant  
c) Rodenticide  
d) Antibiotic
- (75) The surface temperature of Mars is  
a) 750 K  
b) 288 K  
c) 218 K  
d) 240K