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**P.G. Entrance Examination, July - 2023****M.Sc. ENVIRONMENTAL SCIENCE****Sub. Code : 58727****Day and Date : Tuesday, 18 - 07 - 2023****Total Marks : 100****Time : 03.30 p.m. to 05.00 p.m.**

- Instructions :**
- 1) All questions are compulsory.
  - 2) Each question carries 1 mark.
  - 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
  - 4) Follow the instructions given on OMR sheet.
  - 5) Rough work shall be done on the sheet provided at the end of question paper.

**1.** Herbivores are \_\_\_\_\_.

- |                      |                        |
|----------------------|------------------------|
| a) Primary producers | b) Secondary consumers |
| c) Primary consumers | d) Tertiary consumers  |

**2.** Which of the following organization work for biodiversity conservation?

- |                |         |
|----------------|---------|
| a) WWF         | b) IUCN |
| c) Green Peace | d) IPCC |

**3.** In vermi-composting \_\_\_\_\_ are used to produce compost.

- |             |          |
|-------------|----------|
| a) Algae    | b) Fungi |
| c) Bacteria | d) Worms |

**4.** Carbon monoxide gas affects humans by forming \_\_\_\_\_ in the blood.

- |                      |                      |
|----------------------|----------------------|
| a) HbCO              | b) HbCO <sub>2</sub> |
| c) HbCO <sub>3</sub> | d) Hb O <sub>2</sub> |

**P.T.O.**

5. \_\_\_\_\_ National Park is specially developed for birds.
- a) Sanjay Gandhi
  - b) Keoladeo
  - c) Kanha
  - d) Corbett
6. Salinization is accumulation of salt in \_\_\_\_\_.
- a) Water
  - b) Soil
  - c) Body
  - d) Animal
7. Soil pollution is caused by \_\_\_\_\_.
- a) Aerosol
  - b) Acid rain
  - c) Ozone
  - d) CO<sub>2</sub>
8. Forest protection campaign started in Karnataka is known as \_\_\_\_\_.
- a) Chipko Movement
  - b) Appico Movement
  - c) Joint Forest Management
  - d) Afforestation Movement
9. The place where the worst nuclear disaster took place is \_\_\_\_\_.
- a) Washington
  - b) Chernobyl
  - c) Bhopal
  - d) Japan
10. The main source of energy in the environment is \_\_\_\_\_.
- a) Solar energy
  - b) Chemical energy
  - c) Nuclear energy
  - d) Bio-electrical energy
11. Photosynthesis is found in \_\_\_\_\_.
- a) Consumers
  - b) Producers
  - c) Decomposers
  - d) Parasites

- 12.** The largest river with the greatest discharge is \_\_\_\_\_.
- a) River Nile
  - b) Yangtze
  - c) Bramhaputra
  - d) Amazon
- 13.** \_\_\_\_\_ is the non-renewable resource.
- a) Oxygen
  - b) Water
  - c) Sunlight
  - d) Coal
- 14.** \_\_\_\_\_ is the poisonous gas leaked during Bhopal ga tragedy.
- a) PVC
  - b) MIC
  - c) Hydrogen sulphide
  - d) Teflon
- 15.** Expand GIS
- a) Geological Information system
  - b) Geographical information system
  - c) Geographical information source
  - d) Geological index system
- 16.** \_\_\_\_\_ is the phenomenon where Earth retains heat.
- a) Air pollution
  - b) Green house effect
  - c) Global effect
  - d) Land pollution
- 17.** World Earth Day is celebrated on \_\_\_\_\_.
- a) 5<sup>th</sup> June
  - b) 22<sup>nd</sup> March
  - c) 22<sup>nd</sup> April
  - d) 16<sup>th</sup> October

- 18.** A Hawk that eats frog is a \_\_\_\_\_.
- a) Producer
  - b) Primary consumer
  - c) Secondary consumer
  - d) Tertiary consumer
- 19.** “Smog” is a mixture of \_\_\_\_\_.
- a) Smoke and Fog
  - b) Snow and Fog
  - c) Snow and dust
  - d) SO<sub>2</sub> and Fog
- 20.** The pyramid of energy is always \_\_\_\_\_.
- a) Upright
  - b) Inverted
  - c) Spindle shaped
  - d) Round
- 21.** The World Wetland Day is celebrated on \_\_\_\_\_.
- a) 22<sup>nd</sup> March
  - b) 5<sup>th</sup> June
  - c) 16<sup>th</sup> September
  - d) 2<sup>nd</sup> February
- 22.** Human population growth curve is a \_\_\_\_\_ curve.
- a) Parabola shaped
  - b) S shaped
  - c) Zig zag
  - d) J shaped
- 23.** The unit of sound measurement is \_\_\_\_\_.
- a) Joules
  - b) Calories
  - c) Decibel
  - d) Hertz
- 24.** Gas released during the process of photosynthesis is \_\_\_\_\_.
- a) Carbon monoxide
  - b) Carbon dioxide
  - c) Ozone
  - d) Oxygen

- 25.** \_\_\_\_\_ gas has a very important role in maintaining atmospheric temperature.
- a) Oxygen
  - b) Carbon dioxide
  - c) Argon
  - d) Nitrogen
- 26.** One of the following is not a nutrition deficiency disease.
- a) Kwashiorkor
  - b) Marasmus
  - c) Goiter
  - d) Plague
- 27.** Rural energy source in India is \_\_\_\_\_.
- a) Electricity
  - b) Coal
  - c) Sun
  - d) Wood and animal dung
- 28.** \_\_\_\_\_ energy is converted into electrical energy by a solar cell.
- a) Chemical
  - b) Solar
  - c) Wind
  - d) Magnetic
- 29.** Carrier of Dengue disease is \_\_\_\_\_ mosquito.
- a) Culex
  - b) Aedes
  - c) Anophelis
  - d) House fly
- 30.** Wildlife Week is celebrated on \_\_\_\_\_.
- a) 1<sup>st</sup> to 7<sup>th</sup> June
  - b) 1<sup>st</sup> to 7<sup>th</sup> February
  - c) 15<sup>th</sup> to 21<sup>st</sup> October
  - d) 1<sup>st</sup> to 7<sup>th</sup> October
- 31.** The science that deals with the relationship of various organisms with their environment is known as \_\_\_\_\_.
- a) Ecology
  - b) Anthropology
  - c) Geology
  - d) Economics

- 32.** Eutrophication is a process of \_\_\_\_\_.
- a) Water purification
  - b) Enrichment of plant nutrients in water bodies
  - c) Neutralization of wastewater
  - d) Treatment of wastewater
- 33.** The chemical responsible for Ozone hole is \_\_\_\_\_.
- a) CFC
  - b) H<sub>2</sub>S
  - c) CH<sub>4</sub>
  - d) NO<sub>2</sub>
- 34.** \_\_\_\_\_ problem is not created by noise pollution.
- a) Hypertension
  - b) Diarrhea
  - c) Deafness
  - d) Irritation
- 35.** \_\_\_\_\_ are the three R's in environmental protection.
- a) Read, Register, Recall
  - b) Random, Register, Recollect
  - c) Reduce, Rebuild, Restrict
  - d) Reduce, Reuse, Recycle
- 36.** Extensive planting of trees to increase the green cover is called \_\_\_\_\_.
- a) Afforestation
  - b) Agro forestation
  - c) Deforestation
  - d) Social forestry
- 37.** \_\_\_\_\_ is a biodegradable waste.
- a) Nylon
  - b) Plastic
  - c) Wool
  - d) Polythin bags
- 38.** Biodegradable waste can be usefully converted into useful substances by \_\_\_\_\_.
- a) Bacteria
  - b) Viruses
  - c) Nucleo proteins
  - d) Radio active substances

- 39.** Green house Effect is \_\_\_\_\_.
- a) Cultivation of crops in green house to conserve heat
  - b) Trapping of heat energy by upper atmosphere
  - c) Increase of heat due to atmospheric pollution
  - d) Trapping of solar energy due to carbon dioxide gas
- 40.** Green Economy is led by?
- a) International Hydrological Organization
  - b) Intergovernmental Panel for Climate Change
  - c) European Trade Union
  - d) United Nations Environment Programme
- 41.** \_\_\_\_\_ study is pedology
- a) Climate
  - b) Phytoplankton
  - c) Plant leaves
  - d) Soil
- 42.** A product of photosynthesis is \_\_\_\_\_.
- a) Carbon dioxide
  - b) Nitrogen
  - c) Oxygen
  - d) Methane
- 43.** Ozone layer is present in \_\_\_\_\_.
- a) Troposphere
  - b) Mesosphere
  - c) Stratosphere
  - d) Lithosphere
- 44.** The days and nights are formed because of \_\_\_\_\_.
- a) Earth's rotation
  - b) Earth's revolution
  - c) 'Sun's rotation
  - d) Sun's revolution

- 45.** During summer the Earth is \_\_\_\_\_.
- a) Away from the Moon                      b) Away from the Sun  
c) Closer to the Sun                         d) None of these
- 46.** Non-green plants like mushroom can't make their own food because \_\_\_\_\_.
- a) They lack chlorophyll                      b) They are too small  
c) They lack roots to suck water            d) They lack leaves
- 47.** Self purification is a phenomenon associated with \_\_\_\_\_.
- a) Flowing streams                              b) Ground water  
c) Sewage flow in sewers                      d) Dams
- 48.** All are particulate pollutants except \_\_\_\_\_.
- a) Soot    b) Dust  
c) Smoke    d) Ozone
- 49.** The capacity to do work is termed as \_\_\_\_\_.
- a) Power    b) Force  
c) Strength                                        d) Energy
- 50.** Heat is energy in the process of being transferred from \_\_\_\_\_.
- a) Low pressure to high pressure            b) Hot object to cold object  
c) High pressure to low pressure            d) Cold object to hot object
- 51.** Highest percentage of air consists of \_\_\_\_\_.
- a) Oxygen                                         b) Carbon dioxide  
c) Carbon monoxide                            d) Nitrogen



52. \_\_\_\_\_ horizons are there in the soil.
- a) Four   b) Three  
c) Two   d) One
53. \_\_\_\_\_ is not having a single river in it.
- a) Maharashtra   b) Lakshd Bip  
c) Assam   d) Tripura
54. \_\_\_\_\_ found in the human waste causes water pollution.
- a) Viruses   b) Coil form bacteria  
c) Protozoon's   d) Parasitic worms
55. In an ecosystem Earthworms are called as \_\_\_\_\_.
- a) Decomposers   b) Primary producers  
c) Primary consumers   d) Tertiary consumers
56. PUC measures these air pollutants?
- a)  $\text{SO}_x$  and  $\text{CO}_2$    b)  $\text{NO}_x$  and  $\text{CO}_2$   
c) HC and CO   d)  $\text{O}_3$  and  $\text{CO}_2$
57. Chemical substance used to destroy weeds in crops is called
- a) Herbicide   b) Rhodenticide  
c) Ornithocide   d) Fungicide
58. The loss of water from plant leaves is called as \_\_\_\_\_.
- a) Respiration   b) Transpiration  
c) Excretion   d) Evaporation

- 59.** Sudden increase in the population of a species is \_\_\_\_\_.
- a) Population explosion                      b) Population growth  
c) Over population                              d) Over growth
- 60.** Cyclones are generally formed due to \_\_\_\_\_.
- a) Low atmospheric pressure                  b) High atmospheric pressure  
c) Heavy rains                                      d) Low rains
- 61.** Which one of the following birds can rotate its neck backwards to a large extent?
- a) Mynah    b) Sparrow  
c) Crow    d) Owl
- 62.** Full form of CNG is \_\_\_\_\_.
- a) Common National Gas                      b) Common Natural Gas  
c) Compressed Natural Gas                  d) Critified Natural Gas
- 63.** “International Biodiversity Day” is celebrated on \_\_\_\_\_.
- a) 22<sup>nd</sup> May    b) 22<sup>nd</sup> March  
c) 5<sup>th</sup> June    d) 16<sup>th</sup> September
- 64.** The Periyar National Park (PNR) is located in \_\_\_\_\_state.
- a) Orissa    b) Rajasthan  
c) Karnataka                                         d) Kerala
- 65.** The Red List of IUCN provides the list of \_\_\_\_\_.
- a) Endemic species                                b) Isolated species  
c) Threatened species                              d) Exotic species



- 73.** Guttation occurs through \_\_\_\_\_.
- |              |              |
|--------------|--------------|
| a) Stomata   | b) Cuticle   |
| c) Hydathode | d) Lenticels |
- 74.** Which is the largest ecosystem on Earth?
- |           |              |
|-----------|--------------|
| a) Forest | b) Ocean     |
| c) Desert | d) Grassland |
- 75.** *Escherichia coli* used as an indicator organism to determine pollution of water with \_\_\_\_\_.
- |                        |                        |
|------------------------|------------------------|
| a) Industrial effluent | b) Heavy metals        |
| c) Faecal matter       | d) Plant pollen grains |
- 76.** Increase in the concentration of pollutants in higher trophic levels is known as \_\_\_\_\_.
- |                     |                   |
|---------------------|-------------------|
| a) Biodegradation   | b) Eutrophication |
| c) Biomagnification | d) Recycling      |
- 77.** Gas leaked during Bhopal tragedy was \_\_\_\_\_.
- |                         |                          |
|-------------------------|--------------------------|
| a) Ethyl isothiocyanate | b) Propyl isothiocyanate |
| c) Ammonia              | d) Methyl isocyanate     |
- 78.** Montreal protocol is related to \_\_\_\_\_.
- |                    |                     |
|--------------------|---------------------|
| a) Extinct species | b) Endangered birds |
| c) Ozone layer     | d) Carbon monoxide  |
- 79.** \_\_\_\_\_ percentage of land area should remain covered to maintain ecological balance.
- |       |       |
|-------|-------|
| a) 33 | b) 34 |
| c) 10 | d) 50 |



87. The term 'Green Revolution' is coined by \_\_\_\_\_.
- a) M. S. Swaminathan                      b) William Gaud  
c) Charles Elton                              d) Eugene Odum
88. \_\_\_\_\_ feature distinguish a monocot plant from a dicot plant.
- a) Aestivation                              b) Phyllotaxy  
c) Vernation                                  d) Venation
89. Pollination of flowers carried out by bats is called as \_\_\_\_\_.
- a) Anemophily                              b) Ornithophily  
c) Malacophily                              d) Cheiropterophily
90. Plants which are not differentiated into roots, stems and leaves are grouped under \_\_\_\_\_.
- a) Angiosperms                              b) Gymnosperms  
c) Bryophytes                                  d) Thallophytes
91. \_\_\_\_\_ blood group is a universal blood group.
- a) A    b) O+  
c) B    d) B+
92. Alum is used as \_\_\_\_\_.
- a) A disinfectant                              b) A purifier of water  
c) A fertilizer                                  d) A disinfectant
93. All components and individuals in an ecosystem are \_\_\_\_\_.
- a) Indispensable                              b) Interdependent  
c) Dispensable                                  d) Individualistic

94. The concept of carbon credit is originated from \_\_\_\_\_.
- a) Earth summit
  - b) Montreal protocol
  - c) Kyoto protocol
  - d) COP
95. \_\_\_\_\_ planet is surrounded by a ring.
- a) Venus
  - b) Moon
  - c) Saturn
  - d) Mars
96. Wavelength range of visible light is \_\_\_\_\_.
- a) 400 - 500 nm
  - b) 300 - 400 nm
  - c) 390 - 780 nm
  - d) 390 - 1000 nm
97. The metal constituent of chlorophyll is \_\_\_\_\_.
- a) Calcium
  - b) Magnesium
  - c) Selenium
  - d) Manganese
98. Night blindness is caused by the deficiency of vitamin \_\_\_\_\_.
- a) B<sub>12</sub>
  - b) C
  - c) A
  - d) D
99. \_\_\_\_\_ is on the borderline of living and non-living.
- a) Lichen
  - b) Bacteria
  - c) Algae
  - d) Virus
100. Alum clears muddy water by \_\_\_\_\_.
- a) Adsorption
  - b) Emulsification
  - c) Coagulation
  - d) Dialysis



**Rough Work**