

# CBCS SCHEME

18CIV59

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Question Paper Version : A

**Fifth Semester B.E Degree Examination, Jan./Feb. 2023**

## **Environmental Studies**

**(COMMON TO ALL BRANCHES)**

Time: 2 hrs.]

[Max. Marks: 100

### **INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **hundred** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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1. Which of the following is a possible producer in an ecosystem?  
a) Animal                      b) **Plants**                      c) Human beings                      d) Fish
  2. The largest reservoir of nitrogen in our planet is  
**a) Oceans**                      b) Biosphere                      c) Atmosphere                      d) Rivers
  3. India has the world's largest share of which of the following  
a) Manganese                      b) **Mica**                      c) Copper                      d) Diamond
  4. Identify the non renewable source of energy from the following:  
**a) Coal**                      b) Fuel cells                      c) Wind power                      d) Wave power
  5. Which of the following terminologies is not associated with the vertical structure of forest?  
a) Canopy                      b) Understory                      c) Forest floor                      **d) First floor**
  6. Which of the following is cause of loss of biodiversity?  
a) Habitat degradation                      b) Invasion of non-native species  
c) Pollution                      **d) All of these**
  7. Air pollution from automobiles can be controlled by fitting  
a) Electrostatic precipitator                      b) Cyclone separator  
c) Wet collector                      **d) Catalytic converter**
  8. When the solid waste consists of large amount of organic matter and if the moisture content is high, which of the following methods of treatment will be ideal?  
**a) Composting**                      b) Palletizing  
c) Incineration                      d) Recycling

9. Chernobyl Nuclear Disaster occurred in the year  
a) 1984                      b) 1985                      c) 1986                      d) 1987
10. The primary cause of acid rain around the world is  
a) Carbon dioxide                      b) Sulphur dioxide  
c) Carbon monoxide                      d) Ozone
11. World Environmental day is held every year on  
a) June 5<sup>th</sup>                      b) October 2<sup>nd</sup>                      c) April 22<sup>nd</sup>                      d) November 1<sup>st</sup>
12. Ozone layer thickness is measured in \_\_\_\_\_  
a) mm                      b) cm                      c) Dobson unit                      d) Db
13. First of the major environmental protection acts to be promulgated in India was  
a) The Water Act                      b) The Air Act  
c) The Environment Act                      d) Noise Pollution Rules
14. Blue baby syndrome is caused due to \_\_\_\_\_  
a) Manganese                      b) Ozone                      c) Silver                      d) Nitrate
15. World Earth's day is annually celebrated on  
a) April 22<sup>nd</sup>                      b) June 5<sup>th</sup>                      c) January 1<sup>st</sup>                      d) May 1<sup>st</sup>
16. The most important fuel used by nuclear power plant is  
a) U-235                      b) U-238                      c) U-245                      d) U-248
17. Which of the following is a biotic component of ecosystem?  
a) Fungi                      b) Solar light  
c) Temperature                      d) Humidity
18. Abiotic component includes  
a) Soil                      b) Temperature  
c) Water                      d) All of these
19. The word "Environment" is derived from  
a) Greek                      b) French  
c) Spanish                      d) English
20. Which of the following is absorbed by green plants from the atmosphere?  
a) Carbon dioxide                      b) Water  
c) Nutrients                      d) All of these
21. Eutrophication is  
a) an improved quality of water in lakes  
b) a process in carbon cycle  
c) the result to accumulation of plant nutrients in water bodies  
d) a water purification technique
22. Primary consumer is  
a) Herbivores                      b) Carnivores  
c) Macro consumers                      d) Omnivores



23. Which among the following is a climatic factor?  
a) pressure  
b) humidity  
c) temperature  
d) all of these
24. Biodiversity can be broadly classified into how many types?  
a) 2  
b) 5  
c) 3  
d) 4
25. Hot spot areas have  
a) Low density of biodiversity  
b) Only endangered plants  
c) High density of hot springs  
d) High density of biodiversity
26. About \_\_\_\_\_ % of the earth's surface is covered by water.  
a) 53%  
b) 19%  
c) 71%  
d) 90%
27. Deforestation means  
a) preservation of forests  
b) destruction of forests  
c) monocrop cultivation  
d) agriculture
28. When did National Disaster Management Authority formed?  
a) 2000  
b) 2005  
c) 2010  
d) 2015
29. Disaster is an event arising out of  
a) result of hazard event  
b) causes of hazard event  
c) causes of disaster event  
d) all of these
30. The scientific study of earthquake is called  
a) seismograph  
b) seismology  
c) both a and b  
d) none of these
31. South Africa is leading exporter of which mineral?  
a) Copper  
b) Diamond  
c) Silver  
d) Gold
32. The word 'sustainable development' came into existence in the year.  
a) 1992  
b) 1978  
c) 1980  
d) 1987
33. The other word of landscaping is  
a) Reduction  
b) Restoration  
c) Removing topsoil  
d) Restore
34. Cloud seeding with silver iodide is based on the  
a) Bergeron process  
b) Collision-coalescence process  
c) Both a and b  
d) None of these
35. Environmental pollution is due to  
a) Rapid urbanization  
b) Deforestation  
c) Afforestation  
d) a and b
36. The liquid waste from bathroom and kitchen is called  
a) Sullage  
b) Domestic sewage  
c) Storm water  
d) Runoff

37. BOD means  
a) Biochemical Oxygen Demand  
b) Chemical oxygen demand  
c) Biophysical Oxygen Demand  
d) All of these
38. Which of the following source is surface water?  
a) Springs  
b) Streams  
c) Deep wells  
d) All of these
39. Which of the following is biodegradable?  
a) Plastics  
b) Domestic sewage  
c) Detergents  
d) a and c
40. Blaring sounds known to cause  
a) Mental distress  
b) High cholesterol  
c) Neurological problems  
d) All of these
41. "Minamata Disease" is caused due to  
a) Lead  
b) Arsenic  
c) Mercury  
d) Cadmium
42. Alternative eco-friendly fuel for automobiles is  
a) Petrol  
b) Diesel  
c) CNG  
d) Kerosene
43. Population explosion will cause  
a) Biodiversity  
b) Stress on ecosystem  
c) More employment  
d) None of these
44. Which of the following is having high population density?  
a) India  
b) China  
c) USA  
d) Western Europe
45. Demography is the study of  
a) Animals behaviour  
b) Population growth  
c) River  
d) None of these
46. Forest are called as  
a) Air purifier  
b) Earth's lungs  
c) Oxygen reservoir  
d) CO<sub>2</sub> absorbers
47. Which of the following is the facility that the urban people enjoy?  
a) Better quality of air  
b) Better communication access  
c) Large land at cheap rates  
d) None of these
48. Which of the following is an air pollutant?  
a) Carbon dioxide  
b) Oxygen  
c) Nitrogen  
d) Particulate matter
49. Cyto toxic and expired drugs are disposed of by  
a) damping  
b) autoclave  
c) incineration  
d) chemical disinfection
50. The colour code of plastic bag for disposing of microbial laboratory culture waste.  
a) Black  
b) Red  
c) Blue  
d) White



51. Which of the following element make e-waste hazardous in nature?  
a) Land  
b) Glass  
c) Plastic  
d) Iron
52. What is the hazardous pollutant released from batteries?  
a) Arsenic  
b) Barium  
c) Cobalt  
d) Cadmium
53. What is the term used for reuse of sewage sludge?  
a) Compost  
b) Solids  
c) Biosolids  
d) Sludge
54. Reduction in brightness of the famous Taj Mahal is due to  
a) Global warming  
b) Air pollution  
c) Ozone depletion  
d) Afforestation
55. E.I.A. can be expanded as  
a) Environment and Industrial Act  
b) Environment of Impact Activities  
c) Environmental Impact Assessment  
d) Environmentally Important Activity
56. Organic Farming is  
a) Farming without using pesticides and chemical fertilizer  
b) Enhances biodiversity  
c) Promotes soil biological activity  
d) All of these
57. Bio-remediation means the removal of contaminants from  
a) Soil  
b) Wastewater  
c) Groundwater  
d) Both soil and ground water
58. Plants use \_\_\_\_\_ gas for photosynthesis.  
a) Oxygen  
b) Methane  
c) Nitrogen  
d) Carbon dioxide
59. What is the maximum allowable concentration of fluorides in drinking water?  
a) 1.0 mg/l  
b) 1.25 mg/l  
c) 1.50 mg/l  
d) 1.75 mg/l
60. Forest rich area in Karnataka is found in \_\_\_\_\_.  
a) Western Ghats  
b) Bandipur  
c) Nagarhole  
d) Mangalore
61. Among the fresh water available in the earth the percentage of surface water is about  
a) 50%  
b) 10%  
c) 5%  
d) less than 1%
62. Hepatitis is caused by  
a) Protozoa  
b) Virus  
c) Bacteria  
d) Fungus

63. In India groundwater resources are rich in  
 a) Plains of river Kaveri and Krishna  
 b) The Deccan plateau  
 c) The Gangetic plains  
 d) The plains of Netravati and Kapila
64. The required iron content in drinking water as specified by BIS is  
 a) 300 mg/l  
 b) 30 mg/l  
 c) 3 mg/l  
 d) 0.30 mg/l
65. Molasses from sugar industry is used to generate  
 a) Biodiesel  
 b) Hydrogen  
 c) Bioethanol  
 d) Biomethanol
66. Wind Farms are located in  
 a) River basin  
 b) Plain area  
 c) Hilly area  
 d) Valley area
67. Biomass consists of  
 a) Lignin  
 b) Hemi cellulose  
 c) Cellulose  
 d) All of these
68. Natural gas contains  
 a) Carbon dioxide  
 b) Hydrogen  
 c) Methane  
 d) Nitrogen
69. Anti tobacco day is mentioned on  
 a) 31<sup>st</sup> May  
 b) 30<sup>th</sup> June  
 c) 31<sup>st</sup> July  
 d) 31<sup>st</sup> August
70. Population explosion will cause  
 a) Socio-Economic Problems  
 b) Food Scarcity  
 c) Energy crises  
 d) All of these
71. In geosynchronous orbit altitude of the satellite is about  
 a) 36,000 kms  
 b) 10,000 kms  
 c) 50,000 kms  
 d) None of these
72. The Air (Prevention and Control of Pollution) Act was enacted in the year.  
 a) 1987  
 b) 1981  
 c) 1991  
 d) 1988
73. Kudremukh Iron ore mine, Karnataka was closed due to  
 a) River pollution and threat to biodiversity  
 b) Land encroachment  
 c) Radioactive hazards  
 d) Serious health hazard
74. On the eve of Gandhi Jayanthi which andolan was launched by our Honorable Prime Minister  
 a) Swadeshi  
 b) Sarvashikshana Abhiyana  
 c) Suvarnagrama  
 d) Swachh Bharath
75. An international agreement signed in the year 1987, to protect stratospheric ozone is known as  
 a) Montreal protocol  
 b) Kyoto protocol  
 c) Earth summit  
 d) None of these



76. The explosion of First Atomic Bomb was done in Hiroshima and Nagasaki in  
a) 1946                      b) 1986                      c) 1945                      d) 1947
77. A dangerous pesticide which has been reported to cause physical deformities to people of Kerala and Karnataka states  
a) Endosulfan                      b) Fluorides                      c) DDT                      d) Dioxygene
78. Visible portion of EMR ranges between  
a) 0.4 - 0.76  $\mu\text{m}$                       b) 10.5 - 12.5  $\mu\text{m}$                       c) 8.0 - 14.0  $\mu\text{m}$                       d) None of these
79. Data representation in Raster data is by  
a) pixel                      b) points, lines and polygon  
c) latitude and longitude                      d) none of these
80. In water treatment, alum is used for  
a) softening                      b) coagulation                      c) filtration                      d) disinfection
81. GIS stands for  
a) Geostationary Interact Sector                      b) Geographical Information System  
c) Geotechnical Information Society                      d) Geothermal Investigation Site
82. LPG is a mixture of  
a)  $\text{N}_2$  and  $\text{H}_2\text{S}$                       b)  $\text{CO}_2$  and  $\text{N}_2$   
c) Propane and butanes                      d) Methane and  $\text{CO}_2$
83. The Tiger Conservation Project was started in  
a) 1973                      b) 1975                      c) 1981                      d) 2000
84. The leader of "Chipko Movement" is  
a) Sunderlal Bahuguna                      b) Medha Patkar  
c) Vandana Shiva                      d) Mahatma Gandhi
85. Which of the following is the source of Fly-ash?  
a) Vehicular exhaust                      b) Sewage  
c) Thermal power plant                      d) All of these
86. The permissible range of pH for drinking water as per the Indian Standard is  
a) 6 to 9                      b) 6.5 to 8.5  
c) 6 to 8.5                      d) 6.5 to 7.5
87. Water logging is a phenomena in which  
a) Water patterns are rotated  
b) Soil root zone becomes saturated due to over irrigation  
c) Erosion of soil  
d) Soil degradation
88. Carbon content is higher in  
a) Living matter                      b) Soil  
c) Water                      d) Atmosphere
89. Springs means  
a) Surface water                      b) Atmosphere water  
c) Both (a) and (b)                      d) Ground water

90. Bio-remediation means deliberately introducing micro organisms to break pollutants.  
a) Soil  
b) Waste water  
c) Ground water  
d) Both soil and groundwater
91. The Karnataka State Pollution Control Board (KSPCB) was established in the year.  
a) 1974  
b) 1982  
c) 1973  
d) 1983
92. Which of the following is not a part of the hydrological cycle?  
a) Precipitation  
b) Infiltration  
c) Transpiration  
d) Perspiration
93. First International Earth Summit was hold at  
a) USA  
b) Russia  
c) Rio-de-Janerio  
d) Johannesburg
94. Which among the following has highest percentage of calorific value?  
a) Anthracite  
b) Peat  
c) Lignite  
d) Bituminous coal
95. Nitrogen fixing bacteria exists in  
a) Leaf  
b) Stem  
c) Roots  
d) Flower
96. The two major components of ecosystem are  
a) Adiabatic and isotropic  
b) Ecologic and climatologic  
c) Cyclic and biologic  
d) Abiotic and biotic
97. Geothermal energy is a  
a) Heat energy  
b) Wind energy  
c) Current energy  
d) Solar energy
98. The average life expectancy around the world is currently.  
a) Decreasing  
b) Increasing  
c) Stabilizing  
d) Not changing
99. The universal declaration of Human Rights was proclaimed by the UN in the year.  
a) 1946  
b) 1947  
c) 1948  
d) 1949
100. The objective of Integrated Child Development Service (ICDS) are  
a) Immunization  
b) Health check up and referral services  
c) Pre-school non formal education  
d) All of these

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