



## CBCS SCHEME

18CIV59

Question Paper Version : B

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

### Environmental Studies

(COMMON TO ALL BRANCHES)

[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.

1. The Karnataka State Pollution Control Board (KSPCB) was established in the year.  
a) 1974                      b) 1982                      c) 1973                      d) 1983
2. Which of the following is not a part of the hydrological cycle?  
a) Precipitation                      b) Infiltration  
c) Transpiration                      d) Perspiration
3. First International Earth Summit was held at  
a) USA                                      b) Russia  
c) Rio-de-Janerio                      d) Johannesburg
4. Which among the following has highest percentage of calorific value?  
a) Anthracite                              b) Peat  
c) Lignite                                      d) Bituminous coal
5. Nitrogen fixing bacteria exists in  
a) Leaf                                      b) Stem  
c) Roots                                      d) Flower
6. The two major components of ecosystem are  
a) Adiabatic and isotropic                      b) Ecologic and climatologic  
c) Cyclic and biologic                      d) Abiotic and biotic
7. Geothermal energy is a  
a) Heat energy                              b) Wind energy  
c) Current energy                              d) Solar energy

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8. The average life expectancy around the world is currently  
a) Decreasing                              b) Increasing  
c) Stabilizing                              d) Not changing
9. The universal declaration of Human Rights was proclaimed by the UN in the year.  
a) 1946                                      b) 1947  
c) 1948                                      d) 1949
10. 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
11. GIS stands for  
a) Geostationary Interact Sector                      b) Geographical Information System  
c) Geotechnical Information Society                      d) Geothermal Investigation Site
12. LPG is a mixture of  
a) N<sub>2</sub> and H<sub>2</sub>S                              b) CO<sub>2</sub> and N<sub>2</sub>  
c) Propane and butanes                      d) Methane and CO<sub>2</sub>
13. The Tiger Conservation Project was started in  
a) 1973                                      b) 1975                                      c) 1981                                      d) 2000
14. The leader of "Chipko Movement" is  
a) Sunderlal Bahuguna                      b) Medha Patkar  
c) Vandana Shiva                              d) Mahatma Gandhi
15. Which of the following is the source of Fly-ash?  
a) Vehicular exhaust                              b) Sewage  
c) Thermal power plant                              d) All of these
16. 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
17. 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
18. Carbon content is higher in  
a) Living matter                              b) Soil  
c) Water                                      d) Atmosphere
19. Springs means  
a) Surface water                              b) Atmosphere water  
c) Both (a) and (b)                              d) Ground water
20. Bio-remediation means deliberately introducing micro organisms to break pollutants.  
a) Soil                                      b) Waste water  
c) Ground water                              d) Both soil and groundwater

21. 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
22. The Air (Prevention and Control of Pollution) Act was enacted in the year.  
a) 1987                      b) 1981                      c) 1991                      d) 1988
23. 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
24. On the eve of Gandhi Jayanthi which andolan was launched by our Honorable Prime Minister  
a) Swadeshi                      b) Sarvashikshana Abhiyana  
c) Svamagrama                      d) Swach Bharath
25. 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
26. The explosion of First Atomic Bomb was done in Hiroshima and Nagasaki in  
a) 1946                      b) 1986                      c) 1945                      d) 1947
27. 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
28. 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
29. Data representation in Raster data is by  
a) pixel                      b) points, lines and polygon  
c) latitude and longitude                      d) none of these
30. In water treatment, alum is used for  
a) softening                      b) coagulation                      c) filtration                      d) disinfection
31. 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%
32. Hepatitis is caused by  
a) Protozoa                      b) Virus  
c) Bacteria                      d) Fungus
33. 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
34. 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

35. Molasses from sugar industry is used to generate  
a) Biodiesel                      b) Hydrogen  
c) Bioethanol                      d) Biomethanol
36. Wind Farms are located in  
a) River basin                      b) Plain area  
c) Hilly area                      d) Valley area
37. Biomass consists of  
a) Lignin                      b) Hemi cellulose  
c) Cellulose                      d) All of these
38. Natural gas contains  
a) Carbon dioxide                      b) Hydrogen  
c) Methane                      d) Nitrogen
39. 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
40. Population explosion will cause  
a) Socio-Economic Problems                      b) Food Scarcity  
c) Energy crises                      d) All of these
41. Which of the following element make e-waste hazardous in nature?  
a) Land                      b) Glass  
c) Plastic                      d) Iron
42. What is the hazardous pollutant released from batteries?  
a) Arsenic                      b) Barium  
c) Cobalt                      d) Cadmium
43. What is the term used for reuse of sewage sludge?  
a) Compost                      b) Solids  
c) Biosolids                      d) Sludge
44. Reduction in brightness of the famous Taj Mahal is due to  
a) Global warming                      b) Air pollution  
c) Ozone depletion                      d) Afforestation
45. 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
46. Organic Farming is  
a) Farming without using pesticides and chemical fertilizer  
b) Enhances biodiversity  
c) Promotes soil biological activity  
d) All of these
47. Bio-remediation means the removal of contaminants from  
a) Soil                      b) Wastewater  
c) Groundwater                      d) Both soil and ground water

48. Plants use \_\_\_\_\_ gas for photosynthesis.  
 a) Oxygen b) Methane  
 c) Nitrogen d) Carbon dioxide
49. 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
50. Forest rich area in Karnataka is found in \_\_\_\_\_.  
 a) Western Ghats b) Bandipur  
 c) Nagarhole d) Mangalore
51. "Minamata Disease" is caused due to  
 a) Lead b) Arsenic c) Mercury d) Cadmium
52. Alternative eco-friendly fuel for automobiles is  
 a) Petrol b) Diesel c) CNG d) Kerosene
53. Population explosion will cause  
 a) Biodiversity b) Stress on ecosystem  
 c) More employment d) None of these
54. Which of the following is having high population density?  
 a) India b) China c) USA d) Western Europe
55. Demography is the study of  
 a) Animals behaviour b) Population growth  
 c) River d) None of these
56. Forest are called as \_\_\_\_\_.  
 a) Air purifier b) Earth's lungs c) Oxygen reservoir d) CO<sub>2</sub> absorbers
57. 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
58. Which of the following is an air pollutant?  
 a) Carbon dioxide b) Oxygen  
 c) Nitrogen d) Particulate matter
59. Cyoto toxic and expired drugs are disposed of by  
 a) damping b) autoclave  
 c) incineration d) chemical disinfection
60. The colour code of plastic bag for disposing of microbial laboratory culture waste.  
 a) Black b) Red  
 c) Blue d) White
61. South Africa is leading exporter of which mineral?  
 a) Copper b) Diamond  
 c) Silver d) Gold

62. The word 'sustainable development' came into existence in the year.  
 a) 1992 b) 1978 c) 1980 d) 1987
63. The other word of landscaping is  
 a) Reduction b) Restoration  
 c) Removing topsoil d) Restore
64. 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
65. Environmental pollution is due to  
 a) Rapid urbanization b) Deforestation  
 c) Afforestation d) a and b
66. The liquid waste from bathroom and kitchen is called  
 a) Sullage b) Domestic sewage  
 c) Storm water d) Runoff
67. BOD means  
 a) Biochemical Oxygen Demand b) Chemical oxygen demand  
 c) Biophysical Oxygen Demand d) All of these
68. Which of the following source is surface water?  
 a) Springs b) Streams  
 c) Deep wells d) All of these
69. Which of the following is biodegradable?  
 a) Plastics b) Domestic sewage  
 c) Detergents d) a and c
70. Blaring sounds known to cause  
 a) Mental distress b) High cholesterol  
 c) Neurological problems d) All of these
71. 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
72. Primary consumer is  
 a) Herbivores b) Carnivores  
 c) Macro consumers d) Omnivores
73. Which among the following is a climatic factor?  
 a) pressure b) humidity  
 c) temperature d) all of these
74. Biodiversity can be broadly classified into how many types?  
 a) 2 b) 5 c) 3 d) 4

75. Hot spot areas have  
 a) Low density of biodiversity  
 b) Only endangered plants  
 c) High density of hot springs  
 d) High density of biodiversity
76. About \_\_\_\_\_ % of the earth's surface is covered by water.  
 a) 53%                      b) 19%                      c) 71%                      d) 90%
77. Deforestation means  
 a) preservation of forests  
 b) destruction of forests  
 c) monocrop cultivation  
 d) agriculture
78. When did National Disaster Management Authority formed?  
 a) 2000                      b) 2005                      c) 2010                      d) 2015
79. 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
80. The scientific study of earthquake is called  
 a) seismograph  
 b) seismology  
 c) both a and b  
 d) none of these
81. 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>
82. Ozone layer thickness is measured in \_\_\_\_\_  
 a) mm                      b) cm                      c) Dobson unit                      d) Db
83. 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
84. Blue baby syndrome is caused due to \_\_\_\_\_  
 a) Manganese                      b) Ozone                      c) Silver                      d) Nitrate
85. 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>
86. The most important fuel used by nuclear power plant is  
 a) U-235                      b) U-238                      c) U-245                      d) U-248
87. Which of the following is a biotic component of ecosystem?  
 a) Fungi                      b) Solar light  
 c) Temperature                      d) Humidity
88. Abiotic component includes  
 a) Soil                      b) Temperature  
 c) Water                      d) All of these
89. The word "Environment" is derived from  
 a) Greek                      b) French  
 c) Spanish                      d) English

90. Which of the following is absorbed by green plants from the atmosphere?  
 a) Carbon dioxide  
 b) Water  
 c) Nutrients  
 d) All of these
91. Which of the following is a possible producer in an ecosystem?  
 a) Animal                      b) Plants                      c) Human beings                      d) Fish
92. The largest reservoir of nitrogen in our planet is  
 a) Oceans                      b) Biosphere                      c) Atmosphere                      d) Rivers
93. India has the world's largest share of which of the following  
 a) Manganese                      b) Mica                      c) Copper                      d) Diamond
94. Identify the non renewable source of energy from the following:  
 a) Coal                      b) Fuel cells                      c) Wind power                      d) Wave power
95. Which of the following terminologies is not associated with the vertical structure of forest?  
 a) Canopy                      b) Understory                      c) Forest floor                      d) First floor
96. Which of the following is cause of class of biodiversity?  
 a) Habitat degradation                      b) Invasion of non-native species  
 c) Pollution                      d) All of these
97. Air pollution from automobiles can be controlled by fitting  
 a) Electrostatic precipitator                      b) Cyclone separator  
 c) Wet collector                      d) Catalytic converter
98. When the solid waste consists of large amount of organic material 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
99. Chernobyl Nuclear Disaster occurred in the year  
 a) 1984                      b) 1985                      c) 1986                      d) 1987
100. The primary cause of acid rain around the world is  
 a) Carbon dioxide                      b) Sulphur dioxide  
 c) Carbon monoxide                      d) Ozone

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