

**CBCS SCHEME**

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Question Paper Version : A

**Fifth Semester B.E. Degree Examination, Feb./Mar. 2022**  
**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.

1. The word Environment is derived from
 

a) Greek	b) French	c) Spanish	d) English
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2. Primary consumer
 

a) Herbivores	b) Carnivores	c) Macro consumer	d) Omnivores
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3. Abiotic component includes
 

a) Soil	b) Temperature	c) Water	d) All the three
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4. Atmosphere consists of 79% Nitrogen and 21% Oxygen by
 

a) Volume	b) Weight	c) Density	d) All the three
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5. Which of the following is a biotic component of an eco system
 

a) Fungi	b) Solar light	c) Temperature	d) Humidity
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6. Which pyramid is always upright
 

a) Energy	b) Biomass	c) Number	d) Food chain
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7. Which of the following conceptual sphere of environment is having the least storage capacity for matter.
 

a) Atmosphere	b) Lithosphere	c) Hydrosphere	d) Biosphere
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8. The objective of environment education is  
a) Raise consciousness about environmental conditions  
b) To teach environmentally appropriate behavior  
c) Create an environmental ethic.  
d) All of the above

9. The sequence of eating and being eaten in an ecosystem is called  
a) Food chain  
b) Carbon cycle  
c) Hydrological cycle  
d) Anthroposystem

10. The largest reservoir of Nitrogen in our planet is  
a) Ocean  
b) Atmosphere  
c) Biosphere  
d) Hydrosphere

11. Which of the following is a producer in an ecosystem  
a) Plant and some bacteria capable of producing their own food  
b) Animals  
c) Humanbeing  
d) Fish

12. The basic requirements of human being are provided by  
a) Industrialization  
b) Agriculture  
c) Nature  
d) Urbanization

13. In an ecosystem biological cycling of materials is maintained by  
a) Producer  
b) Consumer  
c) Decomposer  
d) All of these

14. A predator is  
a) An animal that is fed upon  
b) An animal that feeds producers  
c) An animal that hunts and feeds on other animals  
d) A primary consumer

15. The major atmospheric gas layer in stratosphere is  
a) Hydrogen  
b) Carbon dioxide  
c) Ozone  
d) Helium

16. Which atmospheric sphere is closest to the earth surface  
a) Troposphere  
b) Strato sphere  
c) Mesosphere  
d) Exosphere

17. World environmental day is on  
a) 5<sup>th</sup> May  
b) 5<sup>th</sup> June  
c) 22<sup>nd</sup> July  
d) 5<sup>th</sup> July

18. Which of the following is absorbed by green plants from the atmosphere  
a) Carbon dioxide  
b) Water  
c) Nutrients  
d) All of the above

19. Habitat refer to  
a) Physical conditions of the place where organism live  
b) Chemical conditions of the place where organism live.  
c) Both a and b  
d) None of a and b

20. A food web consists of  
a) A portion of a food chain  
b) An organisms position in a food chain  
c) Interlocking of food chain  
d) A set of similar consumer

21. In an ecosystem the flow of energy is  
 a) Bidirectional      b) Cyclic  
 c) Unidirectional      d) Multidirectional
22. Estuary means  
 a) Rich in nutrients  
 b) End point of the river  
 c) Meeting place of river and sea  
 d) Treatment of water
23. What percentage of its geographical area of a country should be under forest cover?  
 a) 23%      b) 43%      c) 13%      d) 33%
24. Mineral resources are  
 a) Renewable      b) Available in plenty      c) Non-renewable  
 d) Equally distributed
25. Which of the following is considered as an alternate fuel  
 a) CNG      b) Kerosene      c) Coal      d) Petrol
26. Chernobyl nuclear disaster occurred in the year  
 a) 1984      b) 1972      c) 1986      d) 1987
27. Electromagnetic radiation can cause  
 a) Plague      b) Malaria      c) Cancer      d) Fever
28. OTEC is an energy technology that converts  
 a) Energy in large tides ocean to generate electricity  
 b) Energy in ocean wave to generate electricity  
 c) Energy in ocean due to thermal gradient to generate electricity  
 d) Energy in the fast moving ocean current to generate
29. Direct conversion of solar energy is attained by  
 a) Solar photo voltaic system  
 b) Solar hybrid system  
 c) Solar thermal system  
 d) Solar air heater
30. Hydrogen energy can be trapped through  
 a) Heat pump      b) Fuel cell  
 c) Photovoltaic cell      d) Cell
31. Cow dung can be used  
 a) As manure  
 c) As fuel  
 b) For production of bio gas  
 d) All of the above
32. Natural gas contains  
 a) CO<sub>2</sub>      b) H<sub>2</sub>  
 c) CH<sub>4</sub>      d) N<sub>2</sub>
33. Nuclear waste is active for  
 a) 10 years      b) 50 years      c) 70 years      d) Centuries
34. Molasses from sugar industry is used to generate  
 a) Biodiesel      b) Hydrogen      c) Bio-ethanol      d) Bio methanol
35. Nuclear power plant in Karnataka is located at  
 a) Bhadravathi      b) Kaiga      c) Raichur  
 d) KGF

36. Which resources are in exhaustible  
 a) Renewable      b) Fossil fuel      c) Non Renewable      d) Mineral
37. Earth day is held every year on  
 a) April 22<sup>nd</sup>      b) 5<sup>th</sup> June      c) November 23<sup>rd</sup>      d) January 26<sup>th</sup>
38. Oil and gas are preferred because of  
 a) Easy transportation    b) Cheap      c) Strong smell      d) All of these
39. Mining means  
 a) To conserve and preserve minerals  
 b) To check pollution due to mineral resources  
 c) To extract minerals and ores  
 d) None of these
40. What would you do to prevent environmental damage  
 a) Plant trees  
 b) Halt deforestation  
 c) Control pollution  
 d) All of the above
41. Effect of modern agriculture on soil is due to  
 a) Erosion      b) Acidification      c) Salinization      d) All
42. Bio-remediation means removal of contaminants from  
 a) Soil      b) Wastewater      c) Ground water      d) All
43. Population explosion will cause  
 a) Bio diversity  
 b) Stress in ecosystem  
 c) Unemployment  
 d) None of these
44. Smog is combination of  
 a) Smoke and Snow  
 b) Smoke and Fog  
 c) Smoke and Fog      b) Snow and Fog  
 d) All the above
45. Physical pollution of water is due to  
 a) pH      b) Chloride      c) Turbidity      d) All of these
46. Renewable energy is  
 a) Primary source  
 b) Secondary source  
 c) Tertiary source      b) Secondary source  
 d) none of the above
47. Generation of wind energy is mainly based on  
 a) Storm  
 b) Pressure  
 c) Velocity of wind      d) Direction of wind
48. Which of the following is not a green house gas?  
 a) Ozone      b) Water vapour      c) CO<sub>2</sub>      d) Sulphur dioxide
49. World ozone day is being celebrated on every year  
 a) Sept 5<sup>th</sup>      b) Sept 16<sup>th</sup>      c) Oct 15<sup>th</sup>      d) June 5<sup>th</sup>



- 66 Ozone layer thickness is measured in  
a) PPM b) PPB c) Decibels d) Dobson unit

67 Ferons are  
a) HFC b) CFC c) NFC d) Hydrocarbon

68 Bhopal gas tragedy caused due to leakage of  
a) Methyl iso cyanate (MIC)  
b) Sulphur dioxide  
c) Mustard gas  
d) Chlorine gas

69 ICDS is a welfare scheme for  
a) Public b) Women c) Men d) Children

70 Study of trends in human population growth and prediction of future growth is called  
a) Demography b) Biography c) Katalography d) Psychology

71 Biochemical oxygen demand measures  
a) Industrial pollution  
b) Air pollution  
c) Polluting capacity of effluents  
d) Dissolved O<sub>2</sub> needed by microbes to decompose organic wastes

72 Increasing skin cancer and high mutation rate are the result of  
a) Ozone depletion b) Acid rain c) CO<sub>2</sub> pollution d) CO pollution

73 Sound become hazardous noise pollution at decibels  
a) Above 30 b) Above 80 c) Above 100 d) Above 120

74 The zero population growth due to equal birth and death rates is called  
a) Natural increase b) Demographic transition  
c) Fertility rate d) Replacement level

75 Cauvery water dispute is in between  
a) Karnataka and Andra Pradesh  
c) Karnataka and Tamil Nadu  
b) Karnataka and Maharashtra  
d) None of these

76 Khetri (Rajasthan) is famous for  
a) Gold mine b) Copper mine c) Granite stone d) Marble stone

77 The Water (Prevention and control of pollution) Act was enacted in the year  
a) 1986 b) 1974 c) 1994 d) 1984

78 The Forest (conservation) Act was enacted in the year  
a) 1986 b) 1974 c) 1980 d) 1972

79 Environmental protection is the responsibility of  
a) Govt. of India b) NGOs c) Individual d) All

80 Which of the following is NGO  
a) Narmada Bachao Andolan  
c) Govt. Conservation board  
b) Pollution control board  
d) None of these

- 81 The leader of Chipko movement is  
 a) Sunderlal Bahuguna b) Medha Patkar c) Vandana Shiva d) Anna Hazare
- 82 The Tiger conservation project was started in  
 a) 1973 b) 1984 c) 1999 d) 2004
- 83 An international conference on environmental education was held in December 1982 at  
 a) Kyoto b) Vienna c) New Delhi d) Rome
- 84 ISO 14000 standards deals with  
 a) Population management b) Risk management  
 c) Environmental management d) None of the above
- 85 The First International Earth Summit was held at  
 a) Johannesburg b) Rio de Janeiro c) Kyoto d) Stockholm
- 86 Disease caused by eating fish inhabiting mercury contaminated water is  
 a) Bright's disease b) Minimata disease  
 c) Hashimoto disease d) Osteosclerosis
- 87 Nitrogen oxide and hydrocarbons released by automobiles interact to form  
 a) Carbon monoxide b) Ammonia c) PAN d) Aerosols
- 88 The world AIDS day is recalled on  
 a) 1<sup>st</sup> July b) 5<sup>th</sup> June c) 1<sup>st</sup> December d) 5<sup>th</sup> October
- 89 ENVIS Means  
 a) Environmental Information System b) Environmental Interference service  
 c) Environmental Information Service d) None of the above
- 90 Corona viruses is a  
 a) DNA viruses b) RNA viruses  
 c) Chromosomal viruses d) None of the above
- 91 Where did the first case of corona virus dieses originate  
 a) Yamen city b) Wuhan city c) Whattman city d) Wang city
- 92 SARS refer to  
 a) Severe acute respiratory syndrome b) Self acute respiratory system  
 c) Severe acute respiratory system d) Self accurate rest syndrome
- 93 Effect of carbon monoxide on blood, causing  
 a)  $H_2CO_3$  b) COHb c)  $CO_2Hb$  d)  $HbCO_2$
- 94 Which of the following is the most stable ecosystem  
 a) Mountain b) Desert c) Forest d) Ocean
- 95 In aquatic ecosystem phytoplankton can be considered as a  
 a) Consumer b) Producer  
 c) Saprotropic organisms d) Macro consumer

- 96 A primary succession on bare rock starts with  
a) Lichens                    b) Herbs                    c) Trees                    d) Animals
- 97 Which one is matching sanctuary  
a) Kaziranga – musk deer                    b) Gir – Lion  
c) N.E. Himalayan region – Sambar                    d) Sunderban – rhino
- 98 Which group of vertebrates comprises the highest number of endangered species  
a) Birds                    b) Mammals                    c) Fishes                    d) Reptiles
- 99 In our country the percentage of land under forest is about  
a) 20%                    b) 19%                    c) 25%                    d) 30%
- 100 Fluoride pollution mainly affects  
a) Kidney                    b) Brain                    c) Heart                    d) Teeth

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