

CBCS SCHEME

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Question Paper Version : C

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.

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1. Effect of modern agriculture on soil is due to
a) Erosion b) Acidification c) Salinization d) All
 2. Bio – remediation means removal of contaminants from
a) Soil b) Wastewater c) Ground water d) All
 3. Population explosion will cause
a) Bio diversity
b) Stress in ecosystem
c) Unemployment
d) None of these
 4. Smog is combination of
a) Smoke and Snow b) Snow and Fog c) Smoke and Fog d) All the above
 5. Physical pollution of water is due to
a) pH b) Chloride c) Turbidity d) All of these
 6. Renewable energy is
a) Primary source b) Secondary source
c) Tertiary source d) none of the above
 7. Generation of wind energy is mainly based on
a) Storm b) Pressure
c) Velocity of wind d) Direction of wind

8. Which of the following is not a green house gas?
a) Ozone b) Water vapour c) CO₂ d) Sulphur dioxide
9. World ozone day is being celebrated on every year
a) Sept 5th b) Sept 16th c) Oct 15th d) June 5th
10. First International earth summit was held at
a) Germany b) Stock Holm c) Riode Janeiro d) England
11. Cholera and typhoid are caused by
a) Worms b) Virus c) Bacteria d) Fungus
12. Hepatitis is caused by
a) Protozoa b) Virus c) Fungus d) Bacteria
13. 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) 0.3 mg/l
14. The pH value of the acid rain water is less than
a) 3.2 b) 5.7 c) 7.0 d) 8.7
15. Reduction of brightness of famous Taj Mahal is due to
a) Global warming b) Air pollution c) Ozone depletion d) Afforestation
16. Ozone layer thickness is measured in
a) PPM b) PPB c) Decibles d) Dobson unit
17. Ferons are
a) HFC b) CFC c) NFC d) Hydrocarbon
18. Bhopal gas tragedy caused due to leakage of
a) Methyl iso cyanate (MIC) b) Sulphur dioxide
c) Mustard gas d) Chlorine gas
19. ICDS is a welfare scheme for
a) Public b) Women c) Men d) Children
20. Study of trends in human population growth and prediction of future growth is called
a) Demography b) Biography c) Kalography d) Psychology
21. The leader of Chipko movement is
a) Sunderlal Bahuguna b) Medha Patkar c) Vandana Shiva d) Anna Hazare
22. The Tiger conservation project was started in
a) 1973 b) 1984 c) 1999 d) 2004
23. An international conference on environmental education was held in December 1982 at
a) Kyoto b) Vienna c) New Delhi d) Rome
24. ISO 14000 standards deals with
a) Population management b) Risk management
c) Environmental management d) None of the above

25. The First International Earth Summit was held at
a) Johannesburg b) Rio de Janeiro c) Kyoto d) Stockholm
26. Disease caused by eating fish inhabiting mercury contaminated water is
a) Bright's disease b) Minimata disease
c) Hashimoto disease d) Osteosclerosis
27. Nitrogen oxide and hydrocarbons released by automobiles interact to form
a) Carbon monoxide b) Ammonia c) PAN d) Aerosols
28. The world AIDS day is recalled on
a) 1st July b) 5th June c) 1st December d) 5th October
29. ENVIS Means
a) Environmental Information System
b) Environmental Interference service
c) Environmental Information Service
d) None of the above
30. Corona viruses is a
a) DNA viruses b) RNA viruses
c) Chromosomal viruses d) None of the above
31. The word Environment is derived from
a) Greek b) French c) Spanish d) English
32. Primary consumer
a) Herbivores b) Carnivores c) Macro consumer d) Omnivores
33. Abiotic component includes
a) Soil b) Temperature c) Water d) All the three
34. Atmosphere consists of 79% Nitrogen and 21% oxygen by
a) Volume b) Weight c) Density d) All the three
35. Which of the following is a biotic component of an eco system
a) Fungi b) Solar light c) Temperature d) Humidity
36. Which pyramid is always upright
a) Energy b) Biomass c) Number d) Food chain
37. Which of the following conceptual sphere of environment is having the least storage capacity for matter.
a) Atmosphere b) Lithosphere c) Hydrosphere d) Biosphere
38. 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
39. The sequence of eating and being eaten in an ecosystem is called
a) Food chain b) Carbon cycle
c) Hydrological cycle d) Anthroposystem

40. The largest reservoir of Nitrogen in our planet is
a) Ocean b) Atmosphere c) Biosphere d) Hydrosphere
41. In an ecosystem the flow of energy is
a) Bidirectional b) Cyclic c) Unidirectional d) Multidirectional
42. Estuary means
a) Rich in nutrients
b) End point of the river
c) Meeting place of river and sea
d) Treatment of water
43. What percentage of its geographical area of a country should be under forest cover?
a) 23% b) 43% c) 13% d) 33%
44. Mineral resources are
a) Renewable b) Available in plenty c) Non-renewable d) Equally distributed
45. Which of the following is considered as an alternate fuel
a) CNG b) Kerosene c) Coal d) Petrol
46. Chernobyl nuclear disaster occurred in the year
a) 1984 b) 1972 c) 1986 d) 1987
47. Electromagnetic radiation can cause
a) Plague b) Malaria c) Cancer d) Fever
48. OTEC is an energy technology that convert
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
49. 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
50. Hydrogen energy can be trapped through
a) Heat pump b) Fuel cell c) Photovoltaic cell d) Cell
51. 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
52. The basic requirements of human being are provided by
a) Industrialization b) Agriculture c) Nature d) Urbanization
53. In an ecosystem biological cycling of materials is maintained by
a) Producer b) Consumer c) Decomposer d) All of these

- 54 A predator is
a) An animal that is fed upon
b) An animal that feeds producers
c) An animal that hunts and feeds on their animals
d) A primary consumer
- 55 The major atmospheric gas layer in stratosphere is
a) Hydrogen b) Carbon-dioxide c) Ozone d) Helium
- 56 Which atmospheric sphere is closest to the earth surface
a) Troposphere b) Starto sphere c) Mesosphere d) Exosphere
- 57 World environmental day is on
a) 5th May b) 5th June c) 22nd July d) 5th July
- 58 Which of the following is absorbed by green plants from the atmosphere
a) Carbon dioxide b) Water c) Nutrients d) All of the above
- 59 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
- 60 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
- 61 Where did the first case of corona virus dieses originate
a) Yamen city b) Wuhan city c) Whattman city d) Wang city
- 62 SARS refer to
a) Severe acute respiratory syndrome
b) Self acute respiratory system
c) Severe acute respiratory system
d) Self accurate rest syndrome
- 63 Effect of carbon monoxide on blood, causing
a) H_2CO_3 b) $COHb$ c) CO_2Hb d) $HbCO_2$
- 64 Which of the following is the most stable ecosystem
a) Mountain b) Desert c) Forest d) Ocean
- 65 In aquatic ecosystem phytoplankton can be considered as a
a) Consumer b) Producer
c) Saprotropic organisms d) Macro consumer
- 66 A primary succession on bare rock starts with
a) Lichens b) Herbs c) Trees d) Animals
- 67 Which one is matching sanctuary
a) Kaziranga – musk deer b) Gir -Lion
c) N.E. Himalayan region – Samber d) Sunderban – rhino

- 68 Which group of vertebrates comprises the highest number of endangered species
 a) Birds b) Mammals c) Fishes d) Reptiles
- 69 In our country the percentage of land under forest is about
 a) 20% b) 19% c) 25% d) 30%
- 70 Fluoride pollution mainly affects
 a) Kidney b) Brain c) Heart d) Teeth
- 71 Cow dung can be used
 a) As manure b) For production of bio gas
 c) As fuel d) All of the above
- 72 Natural gas contains
 a) CO₂ b) H₂ c) CH₄ d) N₂
- 73 Nuclear waste is active for
 a) 10 years b) 50 years c) 70 years d) Centuries
- 74 Molasses from sugar industry is used to generate
 a) Biodiesel b) Hydrogen c) Bio-ethanol d) Bio methanol
- 75 Nuclear power plant in Karnataka is located at
 a) Bhadravathi b) Kaiga c) Raichur d) KGF
- 76 Which resources are in exhaustible
 a) Renewable b) Fossil fuel c) Non Renewable d) Mineral
- 77 Earth day is held every year on
 a) April 22nd b) 5th June c) November 23rd d) January 26th
- 78 Oil and gas are preferred because of
 a) Easy transportation b) Cheap c) Strong smell d) All of these
- 79 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
- 80 What would you do to prevent environmental damage
 a) Plant trees
 b) Halt deforestation
 c) Control pollution
 d) All of the above
- 81 Biochemical oxygen demand measures
 a) Industrial pollution
 b) Air pollution
 c) Polluting capacity of effluents
 d) Dissolved O₂ needed by microbes to decompose organic wastes
- 82 Increasing skin cancer and high mutation rate are the result of
 a) Ozone depletion b) Acid rain c) CO₂ pollution d) CO pollution

- 83 Sound become hazardous noise pollution at decibels
a) Above 30 b) Above 80 c) Above 100 d) Above 120
- 84 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
- 85 Cauvery water dispute is in between
a) Karnataka and Andra Pradesh
b) Karnataka and Maharashtra
c) Karnataka and Tamil Nadu
d) None of these
- 86 Khetri (Rajasthan) is famous for
a) Gold mine b) Copper mine c) Granite stone d) Marble stone
- 87 The Water (Prevention and control of pollution) Act was enacted in the year
a) 1986 b) 1974 c) 1994 d) 1984
- 88 The Forest (conservation) Act was enacted in the year
a) 1986 b) 1974 c) 1980 d) 1972
- 89 Environmental protection is the responsibility of
a) Govt. of India b) NGOs c) Individual d) All
- 90 Which of the following is NGO
a) Narmada Bachao Andolan
b) Pollution control board
c) Gove. Conservation board
d) None of these
- 91 Environmental protection is a fundamental duty of the citizen of India under the
a) 21 b) 47 c) 48-A d) Article 51-A(9)
- 92 Important sources of land pollution are
a) Industrial waste b) Agricultural waste
c) Both (a) and (b) d) None of the above
- 93 The radiations absorbed by ozone layer are
a) Ultra violet b) Infra red c) Gamma rays d) Visible
- 94 The first major environmental Protection Law promulgated in India was
a) Air Act b) Water Act
c) Environmental Act d) None of these
- 95 Which of the following is the authority to monitor state industrial effluents?
a) State pollution control board
b) Indian environmental association
c) Centre for science and development
d) None of these
- 96 What is the permissible range of pH for drinking water as per Indian standards
a) 6 to 9 b) 6.5 to 7.5 c) 6 to 8 d) 6.5 to 8.5

- 97 What is the maximum allowable concentration of fluorides in drinking water
a) 1.0 mg/l b) 1.25 mg/l c) 1.5 mg/l d) 1.75 mg/l
- 98 Which of the following is a non point source of water pollution
a) Factories b) Sewage treatment plants
c) urban and suburban lands d) All of the above
- 99 Nitrogen fixing bacteria exists in – of plants
a) Leaf b) Roots c) Stem d) Flower
- 100 Forest rich area in Karnataka is found in _____
a) Western Ghats b) Kodagu c) Mangalore d) Belagavi
