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Fifth Semester B.E Degree Examination, July/August 2021

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 term ecosystem was proposed by

a) A.G. Tansley	b) Marrie Gibbs
c) Costanza	d) Jacob Van Verkul
2. World environment day is on

a) 5 th May	b) 5 th June	c) 18 th July	d) 16 th August
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3. Atmosphere consists of 79% Nitrogen and 21% oxygen by

a) volume	b) weight	c) density	d) all the three
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4. Which of the following is a biotic component of an ecosystem?

a) Fungi	b) sunlight	c) temperature	d) humidity
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5. Which pyramid is always upright

a) Biomass	b) Energy	c) Food chain	d) Temperature
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6. The largest reservoir of nitrogen in our planet is

a) Oceans	b) Biosphere	c) Atmosphere	d) Fossil fuels
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7. In aquatic ecosystem phytoplankton can be considered as a

a) Consumer	b) Macro consumer	c) Producer	d) Decomposer
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8. The basic requirements of human beings are provided by

a) agriculture	b) nature	c) urbanization	d) industries
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9. Environment is the life support system that includes

a) air	b) water	c) land	d) all the above
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10. In an ecosystem biological cycling of materials is maintained by
a) producer b) consumer c) decomposer d) all the above
11. The primary producer in a forest ecosystem are
a) Chlorophyll containing plants and trees
b) Carnivores
c) Herbivores
d) Bacteria and other micro organisms.
12. Primary consumers are
a) herbivores b) carnivores
c) omnivores d) macro-consumers
13. Access to food is mainly determined by
a) human resources b) household income
c) food assistance programs d) society/community
14. Which of the following is a climatic factor?
a) pressure b) temperature c) humidity d) all the above
15. The major atmosphere gas layer is stratosphere is
a) hydrogen b) carbon dioxide c) ozone d) helium
16. Which atmospheric sphere is close to the earth surface?
a) troposphere b) mesosphere c) stratosphere d) exosphere
17. Which following gas is absorbed by green plants from the atmosphere?
a) water vapour b) carbon dioxide c) hydrogen d) nitrogen
18. Most stable ecosystem is
a) forest b) desert c) river d) ocean
19. Tropical forests occur in India in
a) Karnataka b) Kerala and Assam c) Maharashtra d) West Bengal
20. The short term properties of the atmosphere at a given place and time is referred as
a) climate b) microclimate c) weather d) humidity
21. The green plants are also called as
a) autotrophs b) producers c) converters d) all the above
22. The percentage of sunlight used by the plants in photosynthesis is about
a) 0.2% b) 2.0% c) 0.02% d) 20.0%
23. Driving force in an ecosystem is
a) plants b) producers c) solar energy d) biomass energy
24. Environment means
a) air and water b) a beautiful landscape
c) soil and water d) sum total of all conditions



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25. Lithosphere consists of
a) air b) water c) rocks and soil d) all the above
26. Most of the biotic resources are
a) non-renewable b) renewable c) Thum d) none of these
27. The first international earth summit was held of
a) Rio-de Janeiro b) Kyoto c) Stockholm d) Paris
28. Economic and social security is required against
a) unemployment b) illness c) old age d) all the above
29. The thickness of the earth's crust is
a) between 5 to 70km b) 200 km c) 500 km d) 1000 km
30. The desert among the following is not a cold desert
a) Gobi desert b) Atacama desert c) Mojave desert d) Patagonian desert
31. Sundarban delta is present in which state?
a) Karnataka b) West Bengal c) Kerala d) Tamil Nadu
32. Mining means
a) to conserve minerals b) to check pollution c) to extract minerals and ores d) none
33. EIA can be expanded as
a) Environment and Industrial Act
b) Environment and Impact Activities
c) Environmental Impact Assessment
d) Environmental Impact Activity
34. In order to protect the health of people living along the adjoining areas of roads one should
a) plant trees alongside of the roads b) not allow diesel driven vehicles
c) shift the people to other places d) none of the above
35. The pollution caused by transportation depends on
a) type of the vehicles engine b) age of the vehicle c) traffic congestion d) all the above
36. Which of the following is a key element of EIA?
a) scoping b) screening
c) identifying and evaluating alternatives d) all the above
37. Earth day is held every year on
a) April 22nd b) 5th June c) November 23rd d) January 26th
38. Major purpose of most of the dams around the world is
a) power generation b) flood control
c) irrigation d) drinking water supply



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39. The adverse effect of modern agriculture is
- a) water pollution
 - b) soil degradation
 - c) water logging
 - d) all the above
40. Which of the following is the most environment friendly agricultural practice?
- a) organic farming
 - b) using chemical fertilizers
 - c) use of insecticides
 - d) none of the above
41. Farmers have a tendency to
- a) use optimum quantity of water
 - b) over irrigate their crops
 - c) to conserve water
 - d) none of the above
42. Water logging is a phenomenon in which
- a) crop patterns are rotated
 - b) soil root zone becomes saturated due to over irrigation
 - c) erosion of soil
 - d) none of the above
43. How we can protect our environment?
- a) plant trees
 - b) control pollution
 - c) stop deforestation
 - d) all of the above
44. Organic farming is
- a) farming without pesticides and chemical fertilizers
 - b) promotes soil biological activity
 - c) enhances biodiversity
 - d) all of the above
45. Impact of mining on environment
- a) brings order into social setup
 - b) devastation of Eco system
 - c) mineral extraction has no effect on Eco system
 - d) sustainable development
46. Soil conservation is a process in which
- a) soil erosion is allowed
 - b) soil is aerated
 - c) sterile soil is made fertile
 - d) soil is protected against loss
47. Soil Erosion can be prevented by
- a) over grazing
 - b) deforestation
 - c) afforestation
 - d) removal of vegetation.



48. Bio-remediation means the removal of contaminants from
a) water released from industries
b) soil and ground water
c) soil
d) none of the above
49. Terrace farming is practiced in
a) hilly areas b) deserts c) coastal areas d) plains
50. Effect of modern agriculture on soil is due to
a) erosion b) acidification c) salinization d) all the above
51. Over grazing results in
a) soil erosion b) productive soil
c) increase of soil nutrients d) all of the above
52. Molasses from sugar industry is used to generate
a) bio diesel b) hydrogen gas c) bioethanol d) biomethanol
53. Cholera and typhoid are caused by
a) virus b) housefly c) fungus d) bacteria
54. Which of the following is most environmental friendly agriculture practice?
a) using chemical fertilizer
b) use of bio-compost materials
c) using alluvial soil
d) without pesticides and chemical fertilizers
55. Decreased soil fertility through rapid leaching of the essential mineral nutrients is due to
a) reforestation b) deforestation
c) over-exploitation d) none of the above
56. Which of the following are major environmental issues in mining activities?
a) air pollution b) water pollution c) soil degradation d) all of these
57. About 71% of the earth surface is covered by
a) land b) vegetation
c) water d) none of the above
58. Blue baby syndrome is caused by the contamination of water due to
a) Nitrates b) Arsenic c) phosphates d) sulphur
59. What is the permissible range of pH for drinking water as per the Indian standards?
a) 6 to 9 b) 6.5 to 7.5 c) 6.5 to 8.5 d) 6 to 8.5
60. What is the maximum allowable concentration of fluorides in drinking water?
a) 1.0mg/litre b) 1.25 mg/litre c) 1.50 mg/litre d) 1.75 mg/litre
61. The depletion of trees is causing accumulation of
a) NO₂ b) SO₂ c) O₂ d) CO₂



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62. Earth's atmosphere contains how much percentage of nitrogen?
a) 98% b) 21% c) 78% d) 12%
63. India has the largest share of which of the following?
a) manganese b) mica c) copper d) bauxite
64. Conversion of Ammonia to NO_3 by chemical oxidation is termed as
a) nitrification b) leaching c) denitrification d) mineralization
65. Forest rich area in Karnataka is found in
a) Western Ghats area b) Bandipur area
c) Nagarahole area d) Sandur area
66. Mineral resources are
a) renewable b) available in plenty
c) non-renewable d) equally distributed
67. The groundwater depends on
a) amount of rainfall b) runoff
c) geological formations d) all the above
68. Physical pollution of water is due to
a) dissolved oxygen b) turbidity
c) total solids d) BOD
69. Nitrogen fixing bacteria exists in _____ of plants
a) leaf b) stem c) roots d) flower
70. Which of the following is considered as an alternative fuel?
a) CNG b) Kerosene c) coal d) petrol
71. Solar radiation consists of
a) UV b) visible light c) infrared d) all of these
72. Biogas is produced by
a) microbial activity
b) harvesting of crops
c) soil fertility
d) none of these
73. Chernobyl nuclear disaster occurred in the year
a) 1986 b) 1984 c) 1952 d) 1987
74. The expansion for OTEC
a) Ocean Thermal Energy Conversion
b) Ocean Tidal Energy Conversion
c) Ocean Tidal Energy Composition
d) none of these
75. Wind mill farm is existing _____ district of Karnataka.
a) Chitradurga b) Ballari c) Raichur d) Hassan



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76. Wind energy generation depends on
a) direction of the wind
b) humidity
c) velocity of wind
d) precipitation
77. Which of the following source of energy is less eco friendly?
a) biogas
b) wind
c) solar
d) nuclear
78. Silver Iodide is used in
a) cloud seeding
b) nitrification
c) afforestation
d) decomposition
79. Nuclear power plant in Karnataka is located at
a) Bhadravathi
b) Sandur
c) Kaiga
d) Raichur
80. Cow dung can be used
a) as manure
b) as fuel
c) for production of biogas
d) all the above
81. Natural gas contains
a) carbon dioxide
b) hydrogen
c) methane
d) nitrogen
82. LPG(gas) is a mixture of
a) N₂ and H₂S
b) CO₂ and NO₂
c) Propane and Butane
d) Methane and Ethane
83. The source of electromagnetic radiation is
a) sun
b) wind
c) tide
d) water
84. An important NGO involved in global environmental protection is
a) UNICEF
b) green peace
c) BAIF
d) CPCB
85. ISO : 14000 standards deal with
a) Pollution Management
b) Risk Management
c) Environmental Management
d) none of these
86. Which state is having highest women literary rate in India?
a) Maharashtra
b) Kerala
c) Rajasthan
d) Karnataka
87. Which of the following animal is endangered species of India?
a) Black buck
b) Elephant
c) Giraffe
d) Lion
88. The leader of Chipko movement is
a) Medha Patkar
b) Sundarlal Bahuguna
c) Suresh Hablikar
d) Vandana Shiva
89. The Tiger Conservation Project was started it's the year
a) 1984
b) 1972
c) 1999
d) 2004
90. LANDSAT is a
a) satellite
b) aircraft
c) satellite launching station
d) none of these



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91. GIS receives data from
a) existing maps
b) GPS
c) remote sensing data
d) all the above
92. Which of the following cannot be achieved by remote sensing?
a) land use pattern
b) detection of forest fires
c) prevention of earthquakes
d) none of these
93. Leachate is a coloured liquid, that comes out of
a) sanitary landfills
b) septic tanks
c) compost plants
d) aerated lagoons
94. Ozone day is observed on
a) 3rd January
b) 26th March
c) 16th September
d) 10th November
95. Greenhouse effect is related to
a) global warming
b) grasslands
c) green buildings
d) none of these
96. Bhopal gas tragedy was caused due to the leakage of
a) Sulphurdioxide
b) Methane
c) Butane
d) Methyl ISO-cyanate
97. Bhopal gas tragedy happened in the year
a) Dec 1984
b) Dec 1983
c) Dec 1994
d) Dec 1987
98. Petroleum based vehicles unit traces of
a) CO and NO₂
b) SPM
c) Aldehydes
d) CH₄
99. Sound beyond which of the following level can be regarded as a noise pollution?
a) 40dB
b) 80dB
c) 15dB
d) 75dB
100. Noise pollution limit at residential area
a) 45dB
b) 80dB
c) 55dB
d) 90dB

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