

USN

--	--	--	--	--	--	--	--	--	--

First/Second Semester B.E Degree Examination, June /July 2017

Environmental Studies

(COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Answer all the fifty 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 Earth is surrounded by a blanket of air which is referred to as
a) Atmosphere b) Biosphere c) Hydrosphere d) Lithosphere
 2. The term Biosphere was coined by scientist from
a) Romania b) Russia c) Spain d) Sweden
 3. The mantle supporting lithosphere is known as
a) Asthenosphere b) Mantle c) Magma d) Lava
 4. The by – product in Autotrophs is
a) Carbon b) Oxygen c) Nitrogen d) Hydrogen
 5. Fungi and Bacteria are
a) Producers b) Hyterotrophs c) Consumers d) Decomposers
 6. Transpiration by plants is affected by
a) Temperature b) Pressure c) Humidity d) Gravity
 7. The process leading to soil depletion in situ is known as
a) Soil degradation b) Soil erosion c) Urbanization d) None

8. Aggregation of clay into sand – sized grains is by
a) Vegetation b) Wild fire c) Conservation d) Overgrazing
9. Removal of trees cause
a) Loss of biodiversity b) Ecological impact c) Soil erosion d) All of these
10. Consumption of fossil fuels result in
a) Ozone depletion b) Global warming c) both d) None of the above
11. Marine Iguanas were killed due to oil spill at
a) Santa Fe b) Andaman c) Nicobar d) Lakshadweep
12. Arsenic , Fluorides , Phosphates emit from
a) Dairy plants b) Distillery unit c) Fertilizer plant d) Tanneries
13. Mercaptanes is a gaseous effluent characteristic of
a) Tanneries b) Chemical industry c) Petrochemicals d) All of these
14. As per IS : 10500 – 2003, maximum limit of turbidity is
a) 5 NTU b) 10 NTU c) 15 NTU d) 20 NTU
15. Typhoid is a disease due to presence of
a) Bacteria b) Fungus c) Virus d) All
16. Water borne diseases include
a) Polio b) Meningitis c) Cholera d) All
17. Raw sewage used as fertilizer resulted in cholera at
a) Palestine b) Peru c) Paraguay d) Panama
18. Methaemoglobinemia is a syndrome due to excess of
a) Nitrates b) Phosphates c) Chlorides d) Sulphates
19. Limestone reefs are built up by
a) Corals b) Algae c) Both d) None of these
20. Coal is a dirty fuel because it emits
a) CO₂ b) SO₂ c) NO₂ d) All
21. Wet gas contains low amounts of
a) Propane b) Pentane c) Methane d) Hexane
22. Chemical added to detect any leakage of LPG is
a) Trihydrothiophe b) Trinitrothiophene
c) Tritrohythiophene d) Tritronitrothiophene
23. Huge radioactive fallout on life across Europe is due to nuclear disaster at
a) Cambodia b) Cameroon c) Chernobyl d) Cape Town

24. Nuclear power plant in Karnataka is Situated in
a) Karwar b) Kaiga c) Kudremukh d) None
25. Tidal energy schemes in India is being experimented in
a) Mumbai b) Kerala c) Tamilnadu d) Orissa
26. Coal mines result in enhancing hardness of water due to emission of
a) Sulphuric acid b) Nitric acid c) Phosphoric acid d) All
27. Accelerated Algae and water plant growth is
a) Putrefaction b) Eutrophication c) Denitrification d) None
28. Silting is encouraged due to photosynthesis of
a) Algae b) Bacteria c) Corals d) Planktons
29. The word soil is derived from
a) English b) French c) Latin d) Italian
30. Source of soil pollution is due to
a) Mining b) Biological agents c) Urban wastes d) All of these
31. Common viruses present in sewage are
a) Adeno viruses b) Anterioviruses c) Glutoviruses d) All of these
32. Process in which MSW is decomposed is known as
a) Sanitary landfill b) Composting c) Incineration d) None
33. Progress of a nation depends on
a) Population density b) Literacy rates c) Family size d) All of these
34. Country not belonging to G7 is
a) Canada b) Britain c) Cambodia d) Germany
35. Population growth is not the cause of poverty according to
a) Karl Marx b) Napoleon c) Nelson Mandela d) Lincoln
36. Key remedy for fast population growth happens to be
a) Prosperity b) Nutrition c) Social security d) All these
37. Major Green House Gas is
a) CO₂ b) CH₄ c) CFC d) O₃
38. Kyoto protocol was opened for signature on
a) February 16, 1998 b) March 16, 1998 c) April 16, 1998 d) May 16, 1998
39. 'Acid Rain' was coined by
a) Albert Rogers b) Albert Agnus c) Robert Angus d) Alfred Rogers
40. Acid rain can be
a) Dry b) Wet c) Both d) None of these

41. Lowest P^H recorded in rainwater is
a) 1.5 b) 2.5 c) 3.5 d) 4.5
42. Primary cause of acid rain is due to presence of
a) SO_2 b) CO_2 c) NO_2 d) P_2O_5
43. Invaluable stone statues are partially dissolved by acid rain in
a) Sweden b) Greece c) Ukraine d) Uganda
44. Acid rain has become an invisible threat particularly in
a) Turkey b) Tuvalu c) Japan d) Jordan
45. U.N. conference on Human Environment held in
a) Manchester b) Glasgow c) Stockholm d) Liverpool
46. Air Act extends to
a) North India b) South Central India
c) Whole of India d) Includes Pakistan
47. Water Act in the first instance applies to
a) Tamilnadu b) Andhra Pradesh c) Karnataka d) Maharashtra
48. Wild Life Act extends in India except
a) Karnataka b) Kerala c) Kashmir d) Assam
49. On 29th April 1999, NGO's are signified by UN
a) President b) Secretary General c) Chief d) All
50. Guiding principles for Environmental Education were formulated at conference held in
a) New York b) Tbilisi c) Los Angeles d) Brimingham

* * * * *

USN

--	--	--	--	--	--	--	--	--	--

First/Second Semester B.E Degree Examination, June/July 2017
Environmental Studies

(COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Answer all the fifty 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) English b) French c) Latin d) Spanish
2. 22nd April of every year is celebrated as
a) Environmental day b) Earth day c) World AIDS day d) Ozone day
3. In an aquatic ecosystem zoo plankton can be considered as a
a) Consumer b) Producer c) Macro consumer d) None of these
4. Minamata episode of Japan is due to the Poisoning of
a) Mercury b) Cadmium c) Lead d) Strantium
5. The air prevention and control of Pollution Act was enacted in the year
a) 1981 b) 1987 c) 1974 d) 1986
6. Mineral resources are
a) Renewable b) Fossil fuels c) Non – renewable d) Sedimentary rocks
7. Example for abiotic component of ecosystem
a) Plants b) Food c) Water d) Livestock
8. Karnataka State Pollution Control board was established in the year
a) 1974 b) 1976 c) 1984 d) 1983
9. Bhopal gas tragedy happened in the year
a) Dec 1983 b) Dec 1984 c) Dec 1986 d) Dec 1994
10. Environment education is targeted to
a) General public b) Techniques
c) Professionals social groups d) All of these

11. EIA is used to
 a) Establish the environmental baseline data b) Impact Identification
 c) (a) & (b) d) To identify alternative industries
12. One Joule of energy is equal to
 a) 0.2389 calories b) 23.89 calories c) 238.9 calories d) 2.389 calories
13. Petroleum based vehicles emit
 a) Poly nuclear hydrocarbon b) CO
 c) Aldehydes d) All of these
14. Sustainability requires
 a) Conservation of resources
 b) Minimizing depletion of non – renewable resources
 c) Using sustainable practices for managing renewable resources d) All of these
15. Ozone layer thickness is measured in
 a) PPM b) PPB c) Decibels d) Dobson units
16. Atmosphere consists of 79% Nitrogen and 21% Oxygen by
 a) Volume b) Weight c) Density d) All of these
17. Effect of Modern agriculture on soil is due to
 a) Erosion b) Acidification c) Salinization d) All of these
18. In an ecosystem the flow of energy is
 a) Bidirectional b) Cyclic c) Multidirectional d) None of these
19. Noise pollution limits in residential area
 a) 45 dB b) 80 dB c) 55 dB d) 90 dB
20. Which of the following is a biodegradable pollutant?
 a) DDT b) Sewage c) CFC d) Freon's
21. In Hydropower plants, power is generated by
 a) Solar b) Thermal c) Water d) Coal
22. First Internal earth summit was held during
 a) 1972 b) 1992 c) 1982 d) 1962
23. Minimum allowable concentration of total hardness as per BIS in drinking water
 a) 600 mg/l b) 300mg/l c) 1000mg/l d) 100mg/l
24. Fixation of nitrogen is done by
 a) Lightning b) Fixing bacteria c) Fertilizer factory d) All of these
25. The quantity of solar energy received by the earth is
 a) 5% b) 15% c) 99% d) 45%
26. Components of GIS
 a) Data b) Hardware c) Software d) All of these
27. Fossil fuels largely consists of
 a) Hydrocarbons b) Hydrogen sulphide c) Hydrochloric acid d) Carbon dioxide
28. Expand GPS
 a) Geography power system b) Geographic Information system
 c) Both (a) and (b) d) None of these

29. Which of the following remote sensing technologies uses sound
 a) Radar b) Sonar c) Microwave d) Color infrared
30. An automated system for the capture storage, retrieval, analysis and display of spatial data is known as
 a) a GPS b) Q GPRS c) Both (a) & (b) d) a GIS
31. The largest scale of the following is
 a) 1:100000 b) 1:24000 c) 1:62500 d) 1:500000
32. Animal husbandry may result in
 a) Global warming b) Acid rain c) Ozone depletion d) None of these
33. The Adverse effect of modern agriculture is
 a) Water pollution b) Soil degradation c) Water logging d) All of these
34. 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 to 8.5 d) 6.5 to 8.5
35. The tiger conservation project was started in
 a) 1973 b) 1974 c) 1981 d) 1990
36. The Forest (conservation) Act in India was passed in
 a) 1977 b) 1980 c) 1982 d) 1988
37. The pH of unpolluted rain water about
 a) 8.7 b) 3.7 c) 5.7 d) None of these
38. Global warming could affect
 a) Climate b) Increase in sea level
 c) Melting of galcions d) All of the above
39. Which of the following is not a green house gas?
 a) CO₂ b) SO₂ c) O₃ d) Water vapour
40. Urbanization is
 a) Local Environmental issue b) National Environmental issue
 c) Both (a) and (b) d) Not at all on issues
41. Acid rain means
 a) Heavy rain b) Drizzle c) Any precipitation d) None of these
42. Which among the following is considered as secondary pollutants
 a) Nitrous oxide b) Carbon monoxide c) ozone d) None
43. The First International Earth summit was held at
 a) Johannesburg b) Rio de Janeiro c) Kyoto d) Stockholm
44. Environmental education is must for
 a) Children b) Women c) Everyone d) Scientists
45. Which of the following is NGO
 a) Narmada Bachao Andolan b) KSPCB
 c) CPCB d) None
46. The Environmental (protection) Act 1986 deals with
 a) Water b) Air c) Soil d) All of these

47. ISO 14000 standards deal with
a) Pollution Management b) Risk Management
c) Environmental Management d) None of these
48. Ozone hole was first discovered over
a) Arctic b) Antarctica c) Tropical region d) Africa
49. World ozone day is being celebrated in
a) September 5th b) October 15th c) September 16th d) September 11th
50. Which of the following is the unit for measuring the noise
a) Decibels b) Dobson unit c) Centimeter d) None of these.

* * * * *

CBCS Scheme

USN

--	--	--	--	--	--	--	--	--	--

First/Second Semester B.E Degree Examination, Dec.2017/Jan.2018
Environmental Studies

(COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max. Marks: 40

INSTRUCTIONS TO THE CANDIDATES

1. Answer all the forty 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 objective of environmental education is
 - a) Raise consciousness about environmental conditions
 - b) To teach environmentally appropriate behaviour
 - c) Create an environmental ethic
 - d) All of the above.
 2. Which of the following is a biotic component of an ecosystem?
 - a) Fungi
 - b) Solar light
 - c) Temperature
 - d) humidity.
 3. In complex ecosystems the degree of species diversity is
 - a) Poor
 - b) High
 - c) Medium
 - d) None.
 4. Which of the following statement is false
 - a) Inorganic nutrients are recycled in an ecosystem
 - b) Energy "flows" through the ecosystem in the form of carbon-carbon bonds
 - c) Energy is recycled in an ecosystem
 - d) Respiration process releases energy.
 5. In an ecosystem biological cycling of materials is maintained by
 - a) Procedure
 - b) Consumer
 - c) Decomposer
 - d) All of the above.

6. A predator is
a) An animal that is fed upon
b) An animal that feeds upon another animal
c) Animal that feeds upon both plants and animals
d) A primary consumer.
7. Ozone concentration is relatively more in
a) Mesosphere b) Stratosphere c) Staticsphere d) Atmosphere.
8. World environmental day is on
a) 5th May b) 5th June c) 15th June d) 15th May.
9. EIA can be expanded as
a) Environment of Industrial Act b) Environment Important Act
c) Environment Impact Assessment d) Economic Industrial Act.
10. Major purpose of most of the dams are
a) Power generation b) Drinking c) Flood control d) Irrigation.
11. Eutrophication is related to
a) Water b) Soil c) Air d) Land.
12. Water logging is effect of modern
a) Industries b) Agriculture c) Population d) Education.
13. Bioremediation means removal of contaminates by
a) Mining b) Super bugs c) Air d) Water.
14. Nitrate contamination causes
a) White baby syndrom b) Blue baby syndrom
c) Green baby syndrom d) Black baby syndrom
15. Out of the following nutrients in fertilizers which one causes minimum water pollution
a) Nitrogen b) Phosphorous c) Potassium d) Organic matter.
16. Fluorosis is caused due to
a) Chlorine b) Fluoride c) Feldspar d) Farming.
17. Hepatitis is caused by
a) Hepata worm b) Virus c) Amoeba d) Fungus.
18. Chernobyl disaster occurred in the year
a) 1986 b) 2006 c) 2011 d) 1947.

19. Fukushima disaster is a
a) Heavy metal disaster
b) Nuclear disaster
c) Atom bomb disaster
d) Pesticide disaster.
20. A country without a single nuclear power plant is
a) China
b) USA
c) Australia
d) France.
21. Which of the following is more ecofriendly source of producing energy
a) Biogas
b) Coal
c) Fuel cells
d) Hydel
22. Electromagnetic radiation can cause
a) Plague
b) Dengue
c) Cancer
d) Malaria.
23. Wind farms are located in
a) River basin
b) Plain areas
c) Hilly areas
d) Forest areas.
24. Natural gas contains
a) Methane
b) Oxygen
c) Nitrogen
d) Sulphur.
25. The source of electromagnetic radiation is
a) Magnetics
b) Electrons
c) Sun
d) Earth.
26. Which of the following sources is surface water
a) Springs
b) Streams
c) Wells
d) all.
27. Which of the following is an air pollutant
a) CO
b) O₂
c) N₂
d) all.
28. Smog in London was due to
a) SO₂ and NO₂
b) CO₂ and CO
c) Methane and ethane
d) Water and air.
29. Which of the following are Non-biodegradable
a) Plastics
b) Domestic sewage
c) Detergent
d) a and c
30. Endosulfan is a
a) Organization
b) Institution
c) Pesticide
d) River
31. Minamata disease is caused due to
a) Lead
b) Copper
c) Mercury
d) Arsenic.
32. World's single largest class of refugees is due to
a) War
b) Earthquake
c) Tsunami
d) Environmental degradation.

33. Noise pollution limits at airport area
a) 65dB b) 120dB c) 240dB d) 600dB.
34. Blaring sounds are known to cause
a) Metal distress b) Deafness
c) Neurological problems d) All the above.
35. Increase in asthma attacks has been linked to high levels of
a) Soil borne pesticides b) Air borne dust portsides
c) CO₂ d) Green house gases.
36. Population explosion will cause
a) Biodiversity b) Stress on the ecosystem
c) Better communication d) Energy storage.
37. The Protocol that reduces green house gas emissions are
a) Kyoto protocol b) Cartagena protocol
c) Montreal Protocol d) Delhi protocol.
38. Global warming could affect
a) Climate b) Increase in sea level c) Melting of glaciers d) All of the above.
39. Primary cause of acid rain around the world is due to
a) CO₂ b) CO c) SO₂ d) O₃.
40. Reduction in brightness and the famous Taj Mahal is due to
a) Global warming b) Green house gases
c) Ozone deflection d) Air pollution.

* * * * *