

14CIV18/28

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Question Paper Version : D

**First/Second Semester B.E Degree Examination, June/July 2015**  
**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 prohibited.

*ew\* rAYs:!*

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- 1. Direct conversion of solar energy is attained by
- |                               |                               |
|-------------------------------|-------------------------------|
| a) Solar photo voltaic system | b) Solar diesel hybrid system |
| c) Solar thermal system       | d) Solar air heater           |
2. Which place in India the tidal energy has been experimented?
- |        |              |           |               |
|--------|--------------|-----------|---------------|
| a) Goa | b) Karnataka | c) Kerala | d) Tamil Nadu |
|--------|--------------|-----------|---------------|
- Hydrogen energy can be tapped through
- |               |               |                       |              |
|---------------|---------------|-----------------------|--------------|
| a) heat pumps | b) fuel cells | c) photovoltaic cells | d) gasifiers |
|---------------|---------------|-----------------------|--------------|
4. Molasses from sugar industry is used to generate
- |              |             |               |                |
|--------------|-------------|---------------|----------------|
| a) biodiesel | b) hydrogen | c) bioethanol | d) biomethanol |
|--------------|-------------|---------------|----------------|
5. Bhopal gas tragedy caused due to the leakage of
- |                             |                    |
|-----------------------------|--------------------|
| a) Methyl ISO Cyanate (MIC) | b) Methane         |
| c) Sulphur dioxide          | d) Carbon monoxide |
6. Noise pollution limits at residential area
- |          |          |          |         |
|----------|----------|----------|---------|
| a) 80 dB | b) 45 dB | c) 60 dB | d) 90dB |
|----------|----------|----------|---------|
7. Ozone layer is present in
- |                |                 |               |                 |
|----------------|-----------------|---------------|-----------------|
| a) Troposphere | b) Stratosphere | c) Mesosphere | d) Thermosphere |
|----------------|-----------------|---------------|-----------------|
8. Odour in water can be removed by
- |             |                |                  |                  |
|-------------|----------------|------------------|------------------|
| a) Aeration | b) Changing pH | c) Sedimentation | d) None of these |
|-------------|----------------|------------------|------------------|

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9. Which of the following is an air pollutant:  
 a) Oxygen                      b) Particulate matter                      c) Nitrogen                      d) Carbon dioxide
10. The protocol that reduces green house gas emission is  
 a) Kyoto protocol                      b) Montreal protocol                      c) Vienna protocol                      d) Basal protocol
11. 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 butane                      d) Methane and ethane
12. Nuclear fusion reaction occurs in  
 a) The sun                      b) Stars                      c) Hydrogen bomb                      d) All the these
13. Choose the sequence of production of electricity from hydrogen  
 i) Electrolysis of water  
 ii) Performing a fuel cell reaction  
 iii) Storage of hydrogen  
 a) (i), (ii), (iii)                      (i), (iii) and (ii)                      c) (ii), (iii) and (i)                      d) (ii), (i) and (iii)
14. Chernobyl nuclear disaster occurred in the year  
 a) 1984                      b) 1952                      c) 1987                      d) 1987
15. Which resources are inexhaustible?  
 a) renewable                      b) fossil fuel                      c) non renewable                      d) mineral
16. The Tiger conservation project was started is  
 a) 1973                      b) 1974                      c) 1981                      d) 1990
17. The leader of "Chipko movement" is  
 a) Sunder Lal Bahuguna                      b) Medha Patkar  
 c) Vandana Shiva                      d) None of these
18. "Earth day" is observed  
 a) 1<sup>st</sup> December                      b) 5<sup>th</sup> June                      c) April 22<sup>nd</sup>                      d) 1<sup>st</sup> January
19. The committee which submitted its report to government of India on environmental education is  
 a) Tiwari Committee                      b) Mehta Committee  
 c) Banerjee Committee                      d) Agarwal Committee
20. BOD means  
 a) Biochemical oxygen demand                      b) Chemical oxygen demand  
 c) Biophysical oxygen demand                      d) All of these
21. Which of the following is not a part of atmosphere?  
 a) Heterosphere                      b) Mesosphere                      c) Biosphere                      d) Stratosphere
22. EIA study will help  
 a) Maximizing the benefits without overloading the planets ecosystem.  
 b) To estimate the future needs of the society.  
 c) To smooth implementation of the project.  
 d) To cope up with rapid growth of population.

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23. Sustainable development means  
 a) Meeting present needs without compromising on the future needs.  
 b) Progress in human well beings.  
 c) Balance between human needs and the ability of earth to provide the resources.  
 d) All of these.
24. Mineral resources are  
 a) Renewable  
 c) Equally distributed  
 11) Non renewable  
 d) None of the above
25. India has the largest share of which of the following?  
 a) Manganese  
 b) Mica  
 c) Copper  
 d) Diamond
26. Fluoride though is an effective agent to preventing dental caries, has a maximum permissible limit of  
 a) 0.5 mg/it of water  
 c) 5 mg/it of water  
 1?) 1.5 mg/it of water  
 d) 15 mg/it of water
27. Carbon content is higher in  
 a) Soil  
 b) Atmosphere  
 c) W4ter,  
 d) Lining matter
28. Cholera and typhoid are causes by  
 a) Worms  
 b) Virus  
 c), Bacteria  
 d) Fungus
29. The required iron content in drinking water as specified by BIS is  
 a) 300 mg/t  
 b) 30 mg/It  
 c) 3 mgllt  
 d) 0.3 mg//t
30. Major source of fluoride is  
 a) River water  
 b) Tooth paste  
 c,) Ground water  
 d) Food products
31. Nutrient cycling is most related to appropriately.  
 0 Energy, waste, nutrients,,  
 c) Light, weight, nutrients  
 b) Autotrophs, nutrients, decomposers  
 d) None of these
32. In an ecosystem, the flow of energy is  
 a) Bidirectional  
 b) Cyclic  
 c) Unidirectional  
 d) Multidirectional
33. Which of the following is not a part of the hydrological cycle?  
 a) Precipitation  
 b) Infiltration  
 c) Transpiration  
 d) Perspiration
34. The word 'Environment' is derived from  
 a) Greek  
 b) French  
 c) Spanish  
 d) English
35. Which of the following is the terrestrial ecosystem?  
 a) Forest  
 b) Grass land  
 c) Desert  
 ci) All of these
36. The pH value of the acid rain water is  
 a) 5.7  
 b) 7.0  
 c) 8.5  
 d) 7.5
37. Ozone layer thickness is measured in  
 a) PPM  
 b) PPB  
 c) Decibels  
 d) Dobson units

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38. 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.

39. Wind energy generation depends on

- a) direction of wind
- b) velocity of wind
- c) humidity
- d) precipitation

40. Nitrate concentration above 45 mg/lit causes

- a) Vomiting
- b) Dysentery
- c) Typhoid
- d) Blue Baby disease

41. Ozone hole is said to occur when the ozone level decreases below

- a) 200 Du
- b) 2000 Du
- c) 20 Du
- d) 2 Du %.

42. Acid rain can be controlled by

- a) reducing SO<sub>2</sub> and NO<sub>2</sub> emissions
- b) reducing CO and hydrocarbons emissions
- c) Increasing number of lakes
- d) one of these

43. Animal husbandry may result in

- a) Global warming
- b) Acid rain
- c) Ozone depletion
- d) None of these

44. Freons are

- a) HFC
- b) CFC
- c) NFC
- d) Hydrocarbons

45. Ozone hole was first discovered over

- a) Arctic
- b) Antarctica
- c) Tropical region
- d) Africa.

46. The process of withdrawal of nutrients from the soil by acid rain is called

- a) Transpiration
- b) Thermosphere
- c) Infiltration
- d) Leaching

47. Which of the following is not a method for water conservation:

- a) rain water harvesting
- b) reducing water usage
- c) ground water extraction
- d) water recycling

48. Smog is

- a) natural phenomenon
- b) combination of smoke and fog
- c) colourless
- d) all of these

49. The wild life protection act in India was passed in

- a) 1978
- b) 1972
- c) 1986
- d) 1992

50. Air (prevention and control of pollution) Act in India was passed in

- a) 1970
- b) 1975
- c) 1981
- d) 1990