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**First/Second Semester B.E Degree Examination, Dec.2018/Jan.2019**

**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. Which of the following components of the environment are effective transporters of matter?
 

a) Atmosphere and hydrosphere	b) Atmosphere and Lithosphere
c) Hydrosphere and Lithosphere	d) Biosphere and Lithosphere
2. In an ecosystem, the flow of energy is
 

a) bidirectional	b) cyclic	c) unidirectional	d) multidirectional
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3. Which pyramid is always upright
 

a) energy	b) biomass	c) numbers	d) food chain
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4. The largest reservoir of nitrogen in our planet is
 

a) oceans	b) atmosphere	c) biosphere	d) fossil fuels
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5. In aquatic ecosystem phytoplankton can be considered as a
 

a) consumer	b) producer
c) saprotrophic organism	d) macro consumer
6. The basic requirements of human beings are provided by
 

a) industrialization	b) agriculture	c) nature	d) urbanization
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7. Abiotic component includes
 

a) soil	b) temperature	c) water	d) all of these
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8. 'Earth day' is held every year on
 

a) June 5 <sup>th</sup>	b) November 23 <sup>rd</sup>	c) April 22 <sup>nd</sup>	d) January 26 <sup>th</sup>
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9. Major purpose of most of the dams around the world is
- a) power generation                      b) drinking water supply  
c) flood control                              d) irrigation
10. World environment day is on
- a) 5<sup>th</sup> May                      b) 5<sup>th</sup> June                      c) 18<sup>th</sup> July                      d) 16<sup>th</sup> August
11. Socio-economic security in environmental aspects involves
- a) Fairness and equity in distribution costs for complete existing generation  
b) Welfare of the present generation  
c) Intra and inter generational equity of resources  
d) All of these
12. Which of the following statements are true?
- a) Man is not dependent on nature.  
b) Resources are unlimited, so one can use them lavishly  
c) Energy can be converted from one form to another, but some percentage is lost into the environment  
d) Matter can be generated afresh. It need not be recycled or reused.
13. Which of the following is the most environmental friendly agriculture practice?
- a) using chemical fertilizer                      b) using insecticides  
c) organic farming                                  d) none of these
14. Which of the following is a key element of EIA?
- a) scoping    b) screening  
c) identifying and evaluating alternatives          d) all of these
15. Effect of modern agriculture on soil is due to
- a) erosion                      b) acidification                      c) salinization                      d) all of these
16. Soil erosion removes surface soil which contains
- a) organic matter                      b) plant nutrients                      c) both 'a' and 'b'                      d) none of these
17. Farmers have a tendency to
- a) use optimum quantity of water                      b) to over irrigate their crops  
c) to conserve water                      d) all of these
18. Environmental impact assessment
- a) is a study of feasibility of a project  
b) is a study of bio-physical characteristics of the environment that may result from a human action  
c) both 'a' and 'b'  
d) none of these
19. The depletion of trees is causing accumulation of
- a) NO<sub>2</sub>                      b) SO<sub>2</sub>                      c) CO<sub>2</sub>                      d) O<sub>2</sub>
20. Permissible range of pH for drinking water as per the Indian standards.
- a) 6 to 9                      b) 6.50 to 7.50                      c) 6.0 to 8.50                      d) 6.50 to 8.50

21. During photosynthesis, trees produce  
 a) oxygen                      b) carbon dioxide                      c) nitrogen                      d) carbon monoxide
22. Excess fluorides in drinking water is likely to cause  
 a) blue babies                      b) fluorosis  
 c) taste and odour                      d) intestinal irritation
23. Percentage of nitrogen in Earth's atmosphere  
 a) 98%                      b) 12%                      c) 21%                      d) 78%
24. Which of the following is not a part of the hydrological cycle?  
 a) precipitation                      b) infiltration                      c) transpiration                      d) perspiration
25. 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) 0.30 mg/l
26. The most prevalent form of land degradation in India  
 a) landslide                      b) soil subsidence                      c) soil erosion                      d) desertification
27. Solar energy is a  
 a) renewable source                      b) exhaustible  
 c) mutable                      d) source of tidal energy
28. Bhopal gas tragedy occurred due to release of  
 a) methane                      b) methyl isocyanate                      c) sulphur dioxide                      d) carbon dioxide
29. For the growth and reproduction of fish a minimum level of dissolved oxygen should be  
 a) < 4mg/l                      b) = 4 mg/l                      c) 0.4 mg/l                      d) none of these
30. Out of the following nutrients in fertilizer, which one caused minimum water pollution?  
 a) nitrogen                      b) phosphorous                      c) potassium                      d) organimatter
31. The pH value of the acid rain water is  
 a) 5.7                      b) 7.0                      c) 8.5                      d) 7.5
32. The process of movement of nutrients from the soil by the acid rain is  
 a) transpiration                      b) evapotranspiration                      c) leaching                      d) infiltration
33. Ozone layer thickness is measured in  
 a) PPM                      b) PPB                      c) Decibels                      d) Dobson units
34. The primary cause of the acid rain around the world is  
 a) CFC                      b) SO<sub>2</sub>                      c) CO                      d) O<sub>3</sub>
35. Ozone layer is present in  
 a) troposphere                      b) stratosphere  
 c) mesosphere                      d) thermosphere

