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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.

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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
 3. Which pyramid is always upright
 a) energy b) biomass c) numbers d) food chain
 4. The largest reservoir of nitrogen in our planet is
 a) oceans b) atmosphere c) biosphere d) fossil fuels
 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
 7. Abiotic component includes
 a) soil b) temperature c) water d) all of these
 8. 'Earth day' is held every year on
 a) June 5th b) November 23rd c) April 22nd d) January 26th

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) SO₂ c) CO d) O₃
35. Ozone layer is present in
a) troposphere b) stratosphere
c) mesosphere d) thermosphere

