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

## Environmental Studies

(COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max. Marks: 30

### 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. Remote sensing technique deals with the detection of recording of a selected portion of
    - a) Emission spectrum
    - b) Light spectrum
    - c) Photo spectrum
    - d) Electro-magnetic spectrum
  2. RADAR stands for
    - a) Radio & Distance Ranging
    - b) Radio detection & Ranging
    - c) Ranging & Detection Arrangement
    - d) Radio detection Recorder
  3. Which is not a commonly using coding scheme for images
    - a) JPEG
    - b) Gif
    - c) MP3
    - d) Tiff
  4. DBMS stands for
    - a) Database Management System
    - b) Database Monitoring system
    - c) Database Manufacturing system
    - d) Database Mixing station
  5. GIS stands for
    - a) Geostationary interact sector
    - b) Geographical information system
    - c) Geotechnical information society
    - d) Geothermal investigation site
  6. Which State is having highest women literacy rate in India
    - a) Karnataka
    - b) Punjab
    - c) Rajasthan
    - d) Kerala

7. In water treatment, alum is used for  
 a) Softening                      b) Coagulation                      c) Filtration                      d) Disinfection
8. World Ozone day is being celebrated on  
 a) September 5<sup>th</sup>                      b) October 15<sup>th</sup>                      c) September 11<sup>th</sup>                      d) September 16<sup>th</sup>
9. Acid rain has been increasing day by day due to  
 a) Urbanisation                      b) Industrialization  
 c) Increase in vehicle population                      d) None of these
10. Reduction in brightness of the famous Taj Mahal is due to  
 a) Global warming                      b) Air pollution                      c) Ozone depletion                      d) Afforestation
11. Primary cause of Acid rain around the World is due to  
 a) Carbon-di-oxide                      b) Sulphur-di-oxide                      c) Carbon-Monoxide                      d) Ozone
12. Petroleum based vehicles emit tracer of  
 a) CO & NO<sub>2</sub>                      b) SPM<sub>10</sub>                      c) Aldehydes                      d) CH<sub>n</sub>
13. Definition of Noise is  
 a) Loud sound                      b) Unwanted sound  
 c) Constant sound                      d) Sound on high frequency
14. Smog is  
 a) A natural phenomenon                      b) Combination of smoke & fog  
 c) Colourless                      d) All the above
15. The liquid waste from kitchen and bathroom is called  
 a) Sullage                      b) Domestic sewage                      c) Storm waste                      d) Run off
16. BOD means  
 a) Bio chemical oxygen demand                      b) Chemical oxygen demand  
 c) Bio – physical oxygen demand                      d) All the above
17. Highest producer of oil and petroleum is  
 a) Middle East countries                      b) America  
 c) China                      d) India
18. Nuclear waste is active for  
 a) 5 year                      b) 10 years                      c) 50 years                      d) Centuries
19. Nuclear power plant in Karnataka is located at  
 a) Bhadravathi                      b) Sondur                      c) Raichur                      d) Kaiga
20. 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

21. India has the largest share of which of the following  
a) Manganese                      b) Mica                      c) Copper                      d) Diamond
22. Forests prevent soil erosion by binding soil particles in their  
a) Stems                      b) Roots                      c) Leaves                      d) Buds
23. Which of the following is the most environmental friendly agriculture practice  
a) using chemical fertilizers                      b) using insecticides  
c) organic farming                      d) None of these
24. Mining means  
a) To conserve minerals                      b) To check pollution  
c) To extract minerals and ores                      d) None of these
25. Which of the following is absorbed by green plants from atmosphere  
a) Carbon -di - oxide                      b) Water                      c) Nutrients                      d) All of the above
26. Which atmospheric sphere is closest to earth surface  
a) Troposphere                      b) Stratosphere                      c) Mesosphere                      d) Exosphere
27. The largest reservoir of Nitrogen in our plant is  
a) Oceans                      b) Atmosphere                      c) Biosphere                      d) Fossil fuels
28. In an Ecosystem, the flow of energy is  
a) Bidirectional                      b) Cyclic                      c) Unidirectional                      d) Multidirectional
29. Which of the following conceptual spheres of the environment is having the least storage capacity for matter  
a) Atmosphere                      b) Lithosphere                      c) Hydrosphere                      d) Biosphere
30. The term Environment has been derived from the French word \_\_\_\_ which means to encircle or surround.  
a) Environ                      b) Oikes                      c) Geo                      d) Aqua

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