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# BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

## December 2016 Semester End Main Examinations

Course: ENVIRONMENTAL STUDIES

Course Code: 14HS1ICEVS

Duration: 3 hrs

Max Marks: 100

Date: 23.12.2016

**Instructions: PART A is Compulsory. Answer all the questions in PART A**  
**PART B – Answer any 3 full questions**

### PART – A

- 1 The upper most layer of atmosphere is called **1x40=40**  
(a) Thermosphere (b) Exosphere (c) Mesosphere (d)None
- 2 The largest reservoir of Nitrogen in our planet is  
(a) Oceans (b) Atmosphere (c) Biosphere (d)Fossil fuel
- 3 Green revolution is  
a) Crop Variety improvements b)Increased use of Fertilizers c)Expansion of irrigation d) All the above
- 4 The word ecology is derived from  
(a) Greek word (b) French word (c) English word (d)Spanish word
- 5 Which of the following is not a water-borne disease.  
(a) Cholera (b) Cancer (c) Polio (d)Typhoid
- 6 In an aquatic ecosystem phytoplankton can be considered as a  
(a) Consumer (b) Producer  
(c) Saprotrophic organisms (d) Macro consumer
- 7 Important goal of EIA is to  
(a) Control pollution level (b) Resource conservation  
(c)Economic growth (d)Stop development activities
- 8 Hydrological cycle is related to  
(a)Water and electricity (b)Water cycle & balance (c) Water characterization  
d)Hydropower

- 9 . "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>
- 10 The adverse effect of modern agriculture is  
a) Water pollution b) Soil degradation c) Water logging d) All of the above.
- 11 Mining means  
a) To conserve & preserve minerals  
b) To check pollution due to mineral resources  
c) To extract minerals and ores  
d) None
- 12 E.I.A. can be expanded as  
a. Environment & Industrial Act  
b. Environment & Impact Activities  
c. Environmental Impact Assessment  
d. Environmentally Important Activity
- 13 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
- 14 The impact of construction of dams  
a) Submerges forest  
b) Loss of wild life habitat  
c) Damages downstream ecosystem  
d) All of the above
- 15 What percentage of its geographical area of a country should be under forest cover?  
a) 23% b) 43% c) 13% d) 33%
- 16 About .....% of the earth's surface is covered by water  
a) 53% b) 19% c) 71% d) 90%
- 17 Major causes of deforestation are  
a) shifting cultivation b) Fuel requirements  
c) Raw materials for industries d) All of these

- 18 Blue baby syndrome (methaemoglobinemia) is caused by the contamination of water due to  
a) Phosphates b) Sulphur c) Arsenic d) Nitrates
- 19 India has the largest share of which of the following?  
a) Manganese b) Mica c) Copper d) Diamond
- 20 Out of the following nutrients in fertilizer, which one causes minimum water pollution?  
a) Nitrogen b) Phosphorous c) Potassium d) Organic matter
- 21 Many rivers of the World are polluted due to the release of  
a) Agriculture waste b) Industrial effluents c) Heavy flux of sewage d) All
- 22 The inner most part of the earth is called.....  
a) Thermosphere b) Exosphere c) Mesosphere d) None
- 23 The Reddish brown colour of water is due to the presence of  
a) Arsenic b) Sulphates c) Iron and manganese d) Copper
- 24 In water treatment, Alum is used for  
a) Filtration b) Disinfection c) Coagulation d) Softening
- 25 Which of the following is an Aerosol?  
a) Smoke b) Fume c) Mist d) All
- 26 The World Environment Day is on  
a) 5 May b) 15 August c) 18 July d) 5 June
- 27 Temporary hardness of water is due to  
a) Chloride hardness b) Carbonate hardness c) Manganese hardness d) Calcium hardness
- 28 What is the pH range of drinking water  
a) 6.5 to 8.5 b) 6.5 to 7.5 c) 6 to 9 d) 6 to 8.5
- 29 What is the limitation of solar energy?  
a) Cost of conversion is very high b) Energy density is low  
c) Storage of energy is essential d) All
- 30 What is Noise?  
a) Unwanted sound b) Continuous sound c) Sound of high frequency d) Loud sound

- 31 Electromagnetic radiations can cause\_\_\_\_\_
- 32 Earth lungs referred to \_\_\_\_\_
- 33 An important NGO involved in global environmental protection is \_\_\_\_\_
- 34 The environment (protection ) act in India was passed in year \_\_\_\_\_
- 35 \_\_\_\_\_dB is noise pollution in residential area
- 36 Main source of nitrogen in water is agricultural runoff. True/False
- 37 In the year 2003, the honorable supreme court of India made environmental education compulsory subjects at all the levels of education. True/False
- 38 The leader of Chipko movement is SunderlalBahuguna True/False
- 39 The result of accumulation of plant nutrient in water bodies is called Eutrophication. True/False
- 40 Ozone layer is present in stratosphere. True/False

#### **PART – B**

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|---|---|----|
| 1 | a) Describe in detail the components of an ecosystem and their interactions.            | 10 |
|   | b) Explain water-borne diseases with examples   | 05 |
|   | c) List the adverse impacts of Industrialization on surrounding environment.            | 05 |
| 2 | a) What are the main sources of water contamination? Suggest suitable control measures. | 08 |
|   | b) With a neat sketch explain the Nitrogen Cycle  | 06 |
|   | c) Explain Noise pollution  | 06 |
| 3 | a) What are renewable and nonrenewable sources of energy?                               | 05 |
|   | b) Explain the sources of land pollution.   | 05 |
|   | c) Describe the environmental effects of mining on forest ecosystem.                    | 05 |
|   | d) Discuss the importance of hydrogen as source of energy.                              | 05 |
| 4 | a) What are the effects of population explosion?  | 08 |
|   | b) Explain briefly the following:   | 06 |
|   | (i) Acid rain (ii) Ozone layer-Depletion  | 06 |

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