

**PARUL UNIVERSITY**  
**FACULTY OF AGRICULTURE**  
**B.Tech. (Dairy Technology) Summer 2018 - 19 Examination**

**Semester: 2****Subject Code: 20104155****Subject Name: Environmental Studies****Date: 22/04/2019****Time: 2.00 pm to 4.00 pm****Total Marks: 50****Instructions**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 (A) Fill in the blanks (Each of 0.5 Mark)****(05)**

- i) The nitrogen content in environment is about \_\_\_\_\_
- ii) Excessive nutrient growth in water bodies is called as \_\_\_\_\_.
- iii) The resources which can be regenerated are known as \_\_\_\_\_ resources.
- iv) The layer of atmosphere containing ozone gas is called as \_\_\_\_\_
- v) Evaporation, Condensation and Precipitation are steps of \_\_\_\_\_ cycle.
- vi) Pyramid of Energy is always \_\_\_\_\_
- vii) The concentration of \_\_\_\_\_ is highest in our atmosphere.
- viii) The pollutant responsible for ozone layer depletion is \_\_\_\_\_
- ix) The main source of energy is \_\_\_\_\_
- x) The group of organisms that make their own food are known as \_\_\_\_\_

**B) Multiple Choice Questions (Each of 0.5 Mark)****(10)**

- i) Vermicomposting is done by \_\_\_\_\_.  
a) fungus    b) animals    c) bacteria    d) worms
- ii) Air pollution is caused by \_\_\_\_\_.  
a) Sewage    b) Insecticides    c) Loud speakers    d) Smoke
- iii) Which one the following is not biodegradable?  
a) earthworm    b) fruits    c) Aluminium Foil    d) vegetables
- iv) If waste materials contaminate the source of drinking water which of the following diseases will spread?  
a) Cholera    b) Malaria    c) Asthma    d) Alzheimer
- v) Biotic environment includes  
a) Consumers    b) Producers    c) Decomposers    d) All of these
- vi) The group of organisms which convert light into food are called  
a) decomposers    b) autotrophs    c) omnivores    d) heterotrophs

- vii) What will be the outcome of Eutrophication of surface waters?  
 a) Decrease in nitrogen concentration  
 b) Decrease in phosphorus concentration  
 c) Decrease in both nitrogen and phosphorus concentrations  
 d) Overproduction of biomass
- viii) Which one of the following is the cleanest source of energy?  
 a) Hydro Power      b) Fossil Fuel      c) Atomic Power      d) Bio Fuels
- ix) Group of individuals of the same species that share common attributes are called:  
 a) Community      b) Population      c) Ecotype      d) Society
- x) Which of the following is not an important characteristic of the Green Revolution?  
 a) Mechanized Agriculture      b) Hybrid Production  
 c) Burning of Waste      d) All of these
- xi) The stage in which the biological processes are used to purify waste water in a treatment plant is called \_\_\_\_\_.  
 a) Primary sewage treatment  
 b) Secondary sewage treatment  
 c) Tertiary sewage treatment  
 d) Advanced treatment
- xii) Municipal and industrial waste water discharge pipes are \_\_\_\_\_ type of sources causing pollution.  
 a) Non-Point      b) Irrigation      c) Point      d) Mobile
- xiii) The lowest layer of atmosphere is \_\_\_\_\_.  
 a) stratosphere      b) Mesosphere      c) Troposphere      d) Exosphere
- xiv) World Water day is celebrated on \_\_\_\_\_ every year.  
 a) 25<sup>th</sup> March      b) 20<sup>th</sup> March  
 c) 26<sup>th</sup> March      d) 22<sup>nd</sup> March
- xv) Decomposers include  
 a) Fungi      b) Bacteria      c) Both fungi and bacteria      d) Animals
- xvi) What is the harmful effect caused from the depletion of Earth's ozone layer?  
 a) The oxygen content of the atmosphere will decrease  
 b) The average temperature of earth's surface will increase gradually  
 c) Increased amount of Ultra violet radiation will reach earth's surface  
 d) Sea levels will rise as the polar ice caps will gradually melt
- xvii) One of the best solutions to get rid of non-biodegradable wastes is \_\_\_\_\_.  
 a) burning      b) dumping      c) burying      d) recycling
- xviii) The layer of atmosphere containing much of ozone gas is  
 a) Thermosphere      b) Troposphere  
 c) Stratosphere      d) Mesosphere
- xix) Which of the following is a primary contributor to the greenhouse effect?  
 a) Carbon monoxide      b) Carbon dioxide  
 c) Sulphur dioxide      d) Nitrogen dioxide

- xx) As the temperature increases, amount of dissolved oxygen in water \_\_\_\_\_.
- a) does not affected
  - b) increases
  - c) decreases
  - d) can't Say

**Q.2 A) Define the following (Any five out of seven questions) (05)**

- (1) Lithosphere.
- (2) Ecosystem
- (3) Aerosols
- (4) Pollutants
- (5) Smoke
- (6) Fog
- (7) Water Pollution

**B) Answer the following (Any five out of seven questions) (05)**

- (1) With the increase in height, whether the density of air increases or decreases?
- (2) World Environment Day is celebrated on which day?
- (3) What is Global Warming?
- (4) State the main effect of Carbon monoxide on human health.
- (5) What should be the pH of potable water?
- (6) Which law is useful for conserving forest area in India?
- (7) Which kind of diseases can occur due to consumption of unhealthy water?

**Q.3 Write Short notes (Any five out of six questions) (10)**

- (1) What are the causes of soil pollution?
- (2) What are the steps towards mitigation of global environmental issues?
- (3) Explain the kinds of ecosystem.
- (4) What are the major reasons for the destruction of natural resources?
- (5) Differentiate between non-renewable and renewable resources.
- (6) Enlist physical characteristics of water.

**Q.4 Long Questions (Any three out of four questions) (15)**

- (1) Explain the natural resources and their management..
- (2) Define ecological pyramid? Enlist its types and explain any one in detail.
- (3) Enlist the structure of ecosystem and explain in detail.
- (4) Explain in detail the waste water treatment processes.