

PARUL UNIVERSITY
FACULTY OF AGRICULTURE

B.Tech Agriculture /Dairy Technology Winter 2019 - 20 Examination

Semester: 1

Subject Code: 20104113

Subject Name: Environmental Studies

Date: 10/12/2019

Time: 10:30 am to 12:30 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)**

1. CFC is responsible for _____.
2. The main source of energy is _____.
3. The group of organisms that make their own food are known as _____.
4. Stratosphere is containing layer of _____ gas.
5. Evaporation, Condensation and Precipitation are steps of _____ cycle.
6. Pyramid of _____ is always upright.
7. The concentration of oxygen gas in our atmosphere is _____% .
8. The sources of air pollutants which are stable, are known as _____ sources.
9. Excessive nutrient growth in water bodies is called as _____.
10. The resources which cannot be regenerated are known as _____ resources.

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

1. Vermicomposting is done by _____.
a) fungus b) animals c) bacteria d) worms
2. Air pollution is caused by _____.
a) Sewage b) Insecticides c) Loud speakers d) Smoke
3. Which one the following is not biodegradable?
a) earthworm b) fruits c) plastic d) vegetables
4. If waste materials contaminate the source of drinking water which of the following diseases will spread?
a) Cholera b) Malaria c) Asthma d) Alzheimer
5. Biotic environment includes
a) Consumers b) Producers c) Decomposers d) All of above
6. The group of organisms which convert light into food are called
a) decomposers b) autotrophs c) omnivores d) heterotrophs
7. 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
8. Which one of the following is the cleanest source of energy?
a) Hydro Power b) Fossil Fuel c) Wind Energy d) Bio Fuels
9. Group of individuals of the same species that share common attributes are called:
a) Community b) Population c) Ecotype d) Society
10. The study of interrelationship of different organisms with each other and with their environment is known as _____.
a) Biology b) Zoology
c) Ecology d) Geology
11. The stage in which the biological processes is used to purify water in a wastewater treatment plants is called _____.
a) Primary sewage treatment b) Secondary sewage treatment
c) Tertiary sewage treatment

- d) Advanced treatment
12. Municipal and industrial discharge pipes are _____ type of sources of pollution.
a) Non-Point b) Irrigation c) Point d) Mobile
13. The depletion in the Ozone layer is caused by _____.
a) N₂O b) CO₂ c) CFCs d) CH₄
14. World Water day is celebrated on _____.
a) 25th March b) 20th March
c) 26th March d) 22nd March
15. Decomposers include
a) Fungi b) Bacteria c) Both d) Animals
16. What is the harm 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
17. One of the best solutions to get rid of non-biodegradable wastes is _____.
a) Burning b) Dumping c) Burying d) Recycling
18. The layer of atmosphere containing much of ozone gas is
a) Thermosphere b) Troposphere
c) Stratosphere d) Mesosphere
19. Which of the following is not a primary contributor to the greenhouse effect?
a) Carbon monoxide b) Carbon dioxide
c) Sulphur dioxide d) Sulphur
20. 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) Biosphere
- (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) Which gas is available in highest concentration in our atmosphere?
- (2) World Environment Day is celebrated on which day?
- (3) What is Global Warming?
- (4) Write effect of Carbon monoxide on human health.
- (5) What should be the pH of potable water?
- (6) Which law is used to conserve forest area in India?
- (7) Which kind of diseases are occurred due to consumption of unhealthy water?

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

- (1) Greenhouse Effect
- (2) Acid Rain
- (3) Ozone layer depletion
- (4) Climate Change
- (5) Impact of technology on environment
- (6) Objectives of environmental studies.

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

- (1) Explain Water Cycle.
- (2) Explain ecological pyramid in detail.
- (3) Explain various types of energy resources
- (4) Explain nitrogen cycle.