

MSD017

PROGRAMME NAME: Post Graduate Diploma in
Sustainability Science (Online)

COURSE TITLE: Challenges to Sustainable
Development

COURSE CODE: MSD017

Marks per question-2 Total marks-100 Time
duration-180 minutes

Answer all the questions.

1. identify the biotic component of a terrestrial ecosystem
 - A) Carbon dioxide
 - B) Grazing Animals
 - C) Oxygen
 - D) Fishes

2. Rhizobium bacteria in leguminous plants help in
 - A) Carbon sequestration
 - B) Nitrogen fixation
 - C) Acidification
 - D) Leaching

3. Global Goals postulated by UN are to be achieved by the year
 - A) Not specified
 - B) 2025
 - C) 2050
 - D) 2030

4. Which of the following greenhouse gas is released at the waste dumping sites?
- A) Nitrous oxide
 - B) Methane
 - C) Carbon dioxide
 - D) Ozone
5. The Ecological footprint is best described as
- A) The demand placed by an individual on nature
 - B) Amount of fossil fuel consumed by industries
 - C) The amount of minerals present on the Earth
 - D) Number of solar panels on the roof
6. dB is the abbreviation used for
- A) Decabyte
 - B) Decibyte
 - C) Decibel
 - D) Decabel
7. Which of the following is an example of Water borne diseases?
- A) Chikungunya
 - B) Typhoid
 - C) Dengue
 - D) Malaria
- 8) Black soil is also known as
- A) Regur
 - B) Bhanga
 - C) Crystalline
 - D) Humus

9. Which of the following is not associated with landslides?
- A) Epicentre
 - B) Slope
 - C) Heavy rainfall
 - D) Hilly areas
10. Blue baby syndrome is caused due to the presence of
- A) Excess sulphate in drinking water
 - B) Excess mercury in drinking water
 - C) Excess nitrate in drinking water
 - D) Excess arsenic in drinking water
11. Which component of the population explains the number of children born to a woman in her lifetime
- A) Sex ratio
 - B) Replacement level fertility
 - C) Total fertility rate
 - D) Mortality rate
12. Tsunamis occur due to
- A) Mild landslides in the oceans
 - B) Earthquakes in the deserts
 - C) Earthquakes and landslides in hilly areas
 - D) Earthquakes in oceans
13. Ozone is a pollutant when present in
- A) Troposphere
 - B) Exosphere
 - C) Thermosphere

D) Stratosphere

14. Conversion of nitrates to nitrogen gas is the process of

- A) Nitrification
- B) Ammonification
- C) Assimilation
- D) Denitrification

15. Which of the following causes least pollution when burnt?

- A) Petrol
- B) Diesel
- C) Natural Gas
- D) Coal

16. Invasive species are known as all the following except

- A) Endemic Species
- B) Introduced Species
- C) Exotic Species
- D) Alien Species

17. 'Vermicomposting is method of composting that involves

- A) Silkworm
- B) Earthworm
- C) Bacteria
- D) Algae

18. The seed germination is inhibited in *Prosopis juliflora* due to the presence of

- A) Water soluble allelopathins on leaves
- B) Growth inhibiting harmones

- C) Toxins in the plant body
 - D) Excess nitrates in soil
19. The increased water demand in the cities can be better met by
- A) Large desalination plants
 - B) Rainwater harvesting
 - C) Drilling more tube wells
 - D) Sewerage Treatment Plants
20. Which one of the following natural disasters can occur because of the earth's internal heat?
- A) Hurricane
 - B) Floods
 - C) Earthquakes
 - D) Tornado
21. Identify the source of chlorofluorocarbons from the following
- A) Thermal Power plants
 - B) Refrigerators
 - C) Automobile
 - D) Fertilizers
22. Malaria is caused by
- A) Bacterial infection
 - B) Viral infection
 - C) Parasitic infection
 - D) Fungal infection
23. Excessive exposure to pesticides mainly causes
- A) Cholera

- B) Diphtheria
- C) Cancer and neurological problems
- D) irritation in eyes

24. Which of the following elements are used in the making of solar cells?

- A) Silicon
- B) Platinum
- C) Carbon
- D) Silver

25. Biodiesel is produced in India mainly by

- A) Jatropha
- B) Calotropis
- C) Cathranthus
- D) Delonix

26. The main constituent of CNG is

- A) Butane
- B) Methane
- C) Propane
- D) Hexane

27. Why biopiracy should not be encouraged

- A) It kills biodiversity
- B) It provides benefit to humans
- C) It takes years to collect the information
- D) It deprives the poor of the value of their knowledge

28. An international agreement which aims to ensure the safe handling and use of living modified organisms (LMOs) is
- A) The Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS)
 - B) Convention on Biological Diversity
 - C) Cartagena Protocol on Biosafety
 - D) Basel Convention
29. The congress grass that arrived in India in 1956 and causes allergy is
- A) Parthenium
 - B) Eicchornia
 - C) Opuntia
 - D) Sorghum
30. Which of the following is a lifestyle disease?
- A) Obesity
 - B) Measles
 - C) Tuberculosis
 - D) Leprosy
31. Which of the following pollutant forms a toxic substance in blood by combining with hemoglobin?
- A) CO
 - B) CO₂
 - C) NO₂
 - D) CH₄

32. Bed rock is absent in which soil
- A) Saline Soil
 - B) Sandy soil
 - C) Alluvial soil
 - D) Loamy soil
33. Bt Brinjal is a
- A) Cloned Plant
 - B) Hybrid Plant
 - C) Transgenic Plant
 - D) Mutated Plant
34. Desired characters in plant species can be obtained by
- A) Bonsai technology
 - B) Genetic engineering
 - C) Chromosomal engineering
 - D) Ekabana technology
35. The gradual buildup of chemicals as they move through the food chain is called
- A) Biomagnification
 - B) Biodegradation
 - C) Biomethanation
 - D) Bioconcentration
36. UN proclaimed Human Rights Day on
- A) 10 December 1948
 - B) 11 July 1994
 - C) 2 October 1950
 - D) 22 April 1972

37. Sustainable use and protection of natural resources is
- A) Conservation
 - B) Preservation
 - C) Exploitation
 - D) Pollution
38. The best solution to get rid of non-biodegradable waste is
- A) Burning
 - B) Dumping
 - C) Landfilling
 - D) Recycling
39. Which of the following is a non-point source of water pollution?
- A) Agricultural runoff
 - B) Sewage Treatment plant
 - C) Open cast mine
 - D) Deep borewell
40. The population may not increase despite high birth rate because of
- A) Stable Population
 - B) High death rate
 - C) Low death rate
 - D) Constant death rate
41. Which of the following is not a biomass energy source?
- A) Wood
 - B) Gobar Gas
 - C) Nuclear Energy
 - D) Biogas

42. Which of the following natural hazard has no beginning and end time?

- A) Earthquakes
- B) Landslides
- C) Volcanoes
- D) Drought

43. Which of the following is non-biodegradable?

- A) Animal bones
- B) Nylon
- C) Wool
- D) Banyan tree leaves

44. Water suitable for drinking is

- A) Pure water
- B) Potable water
- C) Portable water
- D) Pungent water

45. Enrichment of water body by nutrients like phosphorus and nitrogen is called

- A) Succession
- B) Eutrophication
- C) Stratification
- D) Climax

46. IPCC is concerned with

- A) Trade of endangered species
- B) Ban on ODS

- C) Climate Change
 - D) Biodiversity Conservation
47. Atmospheric pollutants are mostly present in
- A) Ionosphere
 - B) Troposphere
 - C) Stratosphere
 - D) Mesosphere
48. World Population Day is celebrated on
- A) 2 October
 - B) 11 July
 - C) 16 September
 - D) 5 June
49. Night blindness is caused due to deficiency of
- A) Vitamin D
 - B) Vitamin A
 - C) Vitamin C
 - D) Vitamin K
50. The unit of total water content of the soil is known as
- A) Holard
 - B) Chraserd
 - C) Echard
 - D) Soil porosity