

56. What are the organisms that are used as food materials but that are not killed by other organisms in nature?
- Primary consumer
  - Secondary consumer
  - Top consumer
  - Decomposers
57. Phosphorus usually becomes a limiting factor at certain times of the year in which ecosystem?
- Aquatic ecosystem
  - Grassland ecosystem
  - Forest ecosystem
  - All of the above
58. Which of the following statements is not a major concern about our altering of the carbon cycle?
- The Greenland and Antarctic ice caps are expected to melt if global warming continues.
  - High-sulphur fuels are used by power plants because they are less expensive than low-sulphur fuels.
  - The increase in atmospheric  $\text{CO}_2$  exceeds the ability of the oceans to absorb the increase.
  - $\text{CO}_2$  is a gas that traps infrared radiation.
59. Food chains differ from food webs as
- food chains are a single sequence of who eats whom in a community.
  - food chains better represent the entire community.
  - food webs represent the complex interaction among food chains.
  - food chain is the flow of energy in a population.
- Select the correct answer from the above statements–
- 1 and 3
  - 1 and 4
  - 1, 2 and 3
  - 1, 2, 3 and 4
60. Given below are two statements in which one is labeled as Assertion (A) and the other as Reason (R).  
Assertion (A): The major constituent of biogas is methane.  
Reason (R): Biogas is produced by the aerobic degradation by animal wastes like cow dung in the presence of water.  
Select the correct answer from the codes given below:
- Both (A) and (R) are correct and (R) is the correct explanation of the statement (A).
  - (A) and (R) both are correct, but (R) is not the correct explanation of the statement (A).
  - (A) is correct, but (R) is wrong.
  - (A) is wrong, but (R) is correct.
61. Bt toxin is harmful to insects like–
- Lepidoterans (tobacco budworm, armyworms)
  - Coleopterans (beetles)
  - Dipterans (flies and mosquito)
  - All of the above
62. Which of the following can be used for the generation of laser pulse?
- Ruby laser
  - Carbon dioxide laser
  - Helium neon laser
  - Nd- YAG laser
63. Which of the following problem is associated with a burning of coal?
- Carbon-dioxide emission
  - Acid rain
  - Ash with toxic metal impurity
  - All of these.
64. Why insulin not administered orally to diabetic patient?
- Insulin is bitter in taste
  - Insulin is a peptide
  - Insulin will lead to sudden decrease in blood sugar if given orally
  - Insulin leads to peptic ulcer if given orally!
65. What is the name for space inside which a robot unit operates?
- Environment
  - Spatial base
  - Work envelope
  - Exclusion zone