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**SeCTION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
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**Presidency University**

**Bengaluru**

**SCHOOL OF INFORMATION SCIENCE**

**MIDTERM EXAMINATION – APRIL 2023**

**Semester**: Semester - 2021

**Course Code**: CHE1018

**Course Name**: Environmental Science

**Program** : BCA

**Date**: 17.04.2023

**Time**: 11:00 AM – 12:00 PM

**Max Marks**: 50

**Weightage**: 25%

**Instructions:**

1. *Read the question properly and answer all the questions accordingly.*
2. *Complete the test within the time given.*

**Choose the correct option. Each question carries 0.5 mark. (100 x 0.5 = 50)**

1. Biogeochemical cycle includes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**
2. Nutrient cycling through biotic components
3. Nutrient cycling through abiotic components
4. Nutrient cycling through biotic and abiotic components
5. None of the above

2. The importance of ecosystem lies in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) flow of energy (b) cycling of materials (c) both the above (d) none of the above

3. The source of energy in an ecosystem is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) decomposition of animals and plants by bacteria (b) photosynthesis by plants

(c) fermentation by sugar (d) sun light

4. The first link in any food chain is always a green plant because\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) they are widely distributed (b) they are firmly fixed to soil

(c) they alone have the capacity to fix atmospheric carbon dioxide in the presence of sunlight

(d) there are more herbivorous animals than carnivores

5. Trophic level are formed by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) only plants (b) only animals (c) only carnivores (d) organism linked in food chains

6. Biological equilibrium occurs among the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) producers and consumers (b) producers and decomposers

(c) producers, consumers and decomposers (d) producers themselves

7. A plant, being eaten by a herbivore which in turn is eaten by a carnivore, makes \_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) food chain (b) food web (c) food net (d) interdependence

8. If all the green plant where to disappear from the Earth \_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) all the animals will die (b) only herbivores will die

(c) only carnivores will die (d) it will not matter to any animal

9. The non-green plants, like fungi, are as important as green plants because they \_\_\_\_\_\_\_\_\_\_\_

**(CO1, Knowledge)**

(a) cause human diseases (b) cause diseases of other plants

(c) are useful in several industries

(d) bring about the decomposition of dead animals and plants remains

10. The pyramid of numbers in grassland ecosystem will be \_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) linear (b) upright (c) irregular (d) inverted

11. \_\_\_\_\_\_\_\_\_\_is the protective blanket of gases, surrounding the earth. **(CO1, Knowledge)**

1. Hydrosphere b)Biosphere c)Lithosphere d)Atmosphere

12. Producers, consumers and decomposers creates\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Biogeochemical cycle b)Biological disorder c)Biological equilibrium d)All the above

13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deals with the study of ecosystem. **(CO1, Knowledge)**

1. Ecology b)Biology c)Zoology d)Geology

14. The pyramid of number in an ecosystem \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Always upright b)Always inverted c)May be upright or inverted d)None of the above

15. The living beings exists in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Stratosphere b)Mesosphere c)Troposphere d)Exosphere

16. The plants prepare their own food by using \_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. H2O, CO2, Light, and chlorophyll b)Chlorophyll, O2, H2O, and Light
2. Light, CO, H2O, and chlorophyll d)CO2, H2O, Air and chlorophyll

17. Example of quaternary consumer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Lion b)Grasshopper c)Snake d)Frog

18. Secondary consumers derive their energy from\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Producers b)Herbivores c)Tertiary consumers d)All the above

19. The following is the correct food chain of an aquatic ecosystem \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Phytoplankton → Zooplankton →Fish →Bird → Vulture
2. Phytoplankton→ Fish→ Zooplankton → Bird→ Vulture
3. Zooplankton→ Phytoplankton→ Vulture→ Fish → Bird
4. Fish→ Zooplankton→ Phytoplankton→ Bird →Vulture

20. Which of the following is TRUE for food chain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Energy flow b)Nutrient cycling c)Ecological balance d)All the above

21. The planktonic forms of plants are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) autotrophs (b) heterotrophs (c) chemotrophs (d) insectivorous types

22. Ecosystem has two components \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) plants and animals (b) animals and birds (c) biotic and abiotic

(d) vertebrates and non-vertebrates

23. The organisms at the base of food chain are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) herbivores (b) photosynthetic plants (c) saprophytic plants (d) carnivores

24. In abiotic components of an ecosystem which of the following occurs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(CO1, Knowledge)**

(a) flow of energy (b) cycling of materials (c) consumption of food

(d) flow of energy and cycling of material

25. The weather changes take place in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

(a) Troposphere (b) Stratosphere (c) Mesosphere (d) Thermosphere

26. Organisms of the same trophic level are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

* 1. cheetah and wild boar b)deer and honey bee c)snake and earthworm d)crow and cow

27. There is no difference between the following \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

* 1. trophic level 1 and herbivores b)primary consumers and herbivores
  2. primary consumers and trophic level II d)secondary consumers and herbivores

28. The driving force of the ecosystem is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

* + 1. carbohydrates in plants b)biomass c)producer d)solar energy

29. Which of the following is a correct sequence of food chain? \_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. fallen- leaves- bacteria- insect- larvae- birds b)phytoplankton – zooplankton- fish
2. grasses-fox-rabbit d)grasses-chamelion-insects-birds

30. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ provides more than one alternatives of food to most of the organisms in an ecosystem and thus increases their chances of survival. **(CO1, Knowledge)**

1. Food chain b)Food web c)Tropic structure d)Ecological pyramid

31. Producers in an aquatic environment are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Carnivores b)Herbivores c)Zooplanktons d)Phytoplanktons

32. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is known as ionosphere **(CO1, Knowledge)**

1. Stratosphere b)Mesosphere c)Thermosphere d)Exosphere

33. Which is called as autotrophs\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Producers b)Consumers c)Decomposer d)All the above

34. The uppermost layer of the atmosphere is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Stratosphere b)Mesosphere c)Troposphere d)Exosphere

35. In a food chain, the energy flow is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Always unidirectional b)Always bidirectional
2. Always multidirectional d)Unidirectional or multidirectional

36. Radio waves transmitted by earth are reflected back in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_sphere

**(CO1, Knowledge)**

1. Stratosphere b)Mesosphere c)Thermosphere d)Exosphere

37. In an upright pyramid of biomass, the tertiary consumer occupy the position \_\_\_\_\_\_\_\_\_

**(CO1, Knowledge)**

1. 4 b)3 c)2 d)1

38. Human alter the carbon cycle by adding excess CO2 to the atmosphere through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Burning fossil fuels b)Using more number of automobiles
2. clearing vegetation faster than it is replaced d)All the above

39. Select the correct water cycle process. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Condensation, evaporation, runoff, precipitation, infiltration
2. Evaporation, condensation, precipitation, infiltration, runoff
3. Evaporation, infiltration, runoff, precipitation, condensation
4. Precipitation, infiltration, Evaporation, runoff, condensation

40. The shape of pyramid of energy in the grassland and ocean ecosystem is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(CO1, Knowledge)**

1. Inverted b)upright c)inverted and upright d)rhomboidal

41. Part of the earth that inhabits living organism is called \_ \_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Biome b)biotrophy c)biosphere d)biodata

42. In a food chain, the total amount of living material is depicted by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(CO1, Knowledge)**

* 1. pyramid of energy b)pyramid of numbers c)pyramid of biomass d)all the above

43. The treeless biome includes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

* 1. deserts b)grassland c)tundra d)all of these

44. The correct sequence of food chain is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. bacteria- grass- rabbit- wolf b)grass- snake- insect- deer
2. grass- wolf- deer- buffalo d)grass- insect- birds -snake

45. Producers in an aquatic environment are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. carnivores b)herbivores c)zooplanktons d)phytoplanktons

46. The transfer of energy from organism to organism in a natural community establishes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. food chain b)biological control c)natural barriers d)all of these

47. Ecological pyramid is occupied by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. herbivores b)carnivores c)produces d)all of the above

48. Falling stars are found in \_\_\_\_\_\_\_\_\_\_\_\_\_sphere **(CO1, Knowledge)**

1. Stratosphere b)Mesosphere c)Troposphere d)Exosphere

49. The snakes are included under \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Saprophytes b)primary consumer c)secondary trophic level d)none of these

50. Transpiration is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Evaporation from sea surface b)Evaporation from pond surface
2. Evaporation from river surface d)Evaporation from surface of leaves of plants

51. Which of the following is NOT TRUE on the objectives of environmental studies as per UNESCO (1971)? **(CO1, Knowledge)**

1. Creating the awareness about environmental problems among people
2. Imparting basic knowledge about the environment and its allied problems
3. Developing an attitude of concern for the environment
4. Manipulating public to participate in environmental protection

52. The purpose of studying environmental ethics is to overcome\_\_\_\_\_\_\_\_\_\_**(CO1, Knowledge)**

1. environment damage produce by the present generation
2. What acts must be give up to slow such damage?
3. Only a d)Both a and b

53. In which of the following there will be no disturbance in the natural balance?

**(CO1, Knowledge)**

1. Reservoir b)Cropland ecosystem c)Tundra d)Hydroelectric power generation

54. Ozone is found in \_\_\_\_\_\_\_\_\_\_km range **(CO1, Knowledge)**

a) 8-15 km b) 20-30 km c) 30-50 km d) 50-80km

55. Troposphere is also called as \_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Ozonosphere b)Ionosphere c)Changing sphere d)Thermosphere

56. Ecology is concerned with the general principles that apply to both \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Flora and Fauna b)Environment and Ecosystem
2. Lithosphere and hydrosphere d)Biosphere and humans

57. Which of the following is not a terrestrial ecosystem? **(CO1, Knowledge)**

1. Forest b)Grassland c)Lake d)Desert

58. The coldest sphere in the atmosphere is \_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Stratosphere b)Mesosphere c)Thermosphere d)Exosphere

59. Which of the following is NOT an ecosystem? **(CO1, Knowledge)**

1. Desert b)Forest c)Ionosphere d)Salt water lake

60. The layer of earth where life is found in \_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. biosphere b)stratosphere c)mesosphere d)exosphere

61. Which of the following is not an aquatic ecosystem? **(CO1, Knowledge)**

1. River b)Grassland c)Lake d)Ocean

62. All water sources and water bodies are found in\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Lithosphere b)Hydrosphere c)Stratosphere d)Biosphere

63. A grass land has a biomass of roughly 1,000,000 calories of energy. About how many calories of energy will be available for the lion for the following food chain?

Grass→ Deer→ Lion **(CO1, Knowledge)**

1. 10,000 b)1000 c)100,000 d)1,000,000

64. What happens if a portion of food chain is broken? **(CO1, Knowledge)**

1. Only consumers would be affected. b)All the organisms in the chain are affected.
2. The decomposers and producers are affected d)No change

65. \_\_\_\_\_\_\_\_\_\_ is located between 80 to 400 km above the mesosphere. **(CO1, Knowledge)**

1. Troposphere b)Stratosphere c)Thermosphere d)Exosphere

66. Outer mantle of solid earth is \_\_\_\_\_\_\_\_\_. **(CO1, Knowledge)**

1. Biosphere b)Lithosphere c)Cryosphere d)Hydrosphere

67. Which of the following is maintained by a human? **(CO1, Knowledge)**

1. Grasslands b)Cropland c)Forests d)Streams

68. Thermosphere consists of only \_\_\_\_\_\_\_\_\_\_particles. **(CO1, Knowledge)**

1. Ionic b)Non-ionic c)Neutral d)All the above

69. Water source running water like spring, stream, or rivers are referred to as \_\_\_\_\_\_\_\_\_\_\_.

**(CO1, Knowledge)**

1. Lotic Ecosystem b)Lentic Ecosystem c)Fresh water ecosystem
2. Salt water ecosystem

70. Which of the following food chain produces greater available energy for man?

**(CO1, Knowledge)**

1. Phytoplanktons →small fish→large fish→birds→man
2. Green plant→rabbit→man
3. Green plant→small insect→frog→big fish →man
4. Green plant→man

71. What will happen if decomposers are removed from the ecosystem? **(CO1, Knowledge)**

1. Producers can produce food
2. Nutrient recycle is stopped
3. Consumers cannot absorb solar energy
4. Rate of decomposition of mineral increases

72. Spraying of insecticides, led to the deaths of cats and spreading of plague due the increament of rat population. This incident represents the: **(CO1, Knowledge)**

1. Interconnectedness between the different components of an ecosystem
2. Significance of food chain
3. Both (a) and (b)
4. Neither (a) nor (b)

73. Which of the following statement is correct? **(CO1, Knowledge)**

1. An ecosystem is a functional unit of nature and comprises abiotic components.
2. Abiotic components are biological elements.
3. Biotic components are producers, consumers and decomposers.
4. Energy flow is multidirectional.

74. Burning of fossil fuels affects\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Nitrogen cycle b)Carbon cycle c)Phosphorus cycle d)Sulpher cycle

75. Which of the following pair is not correctly matched? **(CO1, Knowledge)**

1. Autotrophs – Fungi b)Primary consumers - Zooplankton
2. Secondary consumers – Fishes d)Decomposers – Bacteria

76. Which of the following states the difference between food chain and food webs?

**(CO1, Knowledge)**

1. food webs provide more than one option of food for a species.
2. food webs represent the complex interaction among food chains.
3. food chains are single sequence of who eats whom in a community.
4. Both (a) and (b)

77. The system resulting from the interaction of all the living and non-living factors of the environment is called \_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Ecology b)Ecosystem c)Environmental Science d)All of the above

78. Pyramid of biomass represents\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Amount of matter lost between each trophic level
2. Number of species at different trophic level
3. Energy associated with different trophic level
4. None of the above

79. Which of these do not alter the water cycle? \_\_\_\_\_\_\_\_\_\_\_\_\_  **(CO1, Knowledge)**

1. Clearing the vegetation
2. Withdrawing excess of ground water
3. Polluting the water
4. Depletion of ozone layer

80. \_\_\_\_\_\_\_\_\_ is defined as the study of interrelationship of different organisms with each other and with their environment. **(CO1, Knowledge)**

1. Ecology b)Ecosystem c)Environment d)All of the above

81. An ecosystem consists of the \_\_\_\_\_\_ community that occurs in some locale, and the physical and chemical factors that make up its non-living or abiotic environment. **(CO1, Knowledge)**

1. Biosphere b)Biological c)Biochemical d)Chemical

82. Wild fire will disturbs\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Phosphorus cycle b)Nitrogen cycle c)Carbon cycle d)Sulphur cycle

83. Which of these processes do not belong to water cycle? **(CO1, Knowledge)**

1. Transpiration b)Evaporation c)Sublimation d)Precipitation

84. Which of these do not affect the carbon cycle? **(CO1, Knowledge)**

1. Burning of excess of fossil fuels
2. Clearing vegetation
3. Carbon emission by industrial establishments
4. Polluting the water

85. Which of these is true in the case of pyramid of numbers? **(CO1, Knowledge)**

1. Autotrophic level is much larger than higher trophic levels
2. Saprotrophic level is much larger than other trophic levels
3. Heterotrophic level is much larger than other trophic levels
4. None of the above

86. Unit not used in the pyramid of biomass\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Pounds b)Kg c)Grams d)Litre

87. Why Troposphere is also called Changing sphere? **(CO1, Knowledge)**

1. The air remains static in this layer
2. The air never remains static in this layer
3. The cloud never remains static in this layer
4. The water never remains static in this layer

88. Space, landforms and water bodies are related to which type of elements of environment?

**(CO1, Knowledge)**

1. Physical elements b)Biological elements c)Cultural elements d)None of the above

89. Which of the following is a food chain? **(CO1, Knowledge)**

1. Egg 🡪 Hatchling 🡪 Chick 🡪 Hen b)Egg 🡪 Larva 🡪 Pupa 🡪 Butterfly
2. Eggplant leaves 🡪 Larva 🡪 Bird 🡪 Snake d)Egg 🡪 Tadpoles 🡪 Toadlets 🡪 Frog

90. What are the two basic categories of an ecosystem? **(CO1, Knowledge)**

1. Aquatic and terrestrial b)Aquatic and forest c)Ponds and lakes d)Rivers and forests

91. The word Ecology is a \_\_\_\_\_\_\_\_ word. **(CO1, Knowledge)**

1. French b)Greek c)English d)German

92. Which process is responsible for the formation of water vapor? **(CO1, Knowledge)**

1. Evaporation b)Transpiration c)Condensation d)Both (a) and (b)

93. A factory located on the bank of a river releases its effluent into the river. Which of the following process will be affected by this incident? **(CO1, Knowledge)**

1. Carbon cycle b)Water cycle c)Both (a) and (b) d)Niether (a) nor (b)

94. Where can be the microorganisms placed in any food chain? **(CO1, Knowledge)**

1. At the starting of the food chain
2. At the end of the food chain
3. In the middle of the food chain
4. Anywhere

95. Which of the following best completes the given food chain? **(CO1, Knowledge)**

Wheat 🡪 Mouse 🡪 ? 🡪 Eagle

1. Earthworm b)Rabbit c)Frog d)Snake

96. Which of the following statement is true for the given group of animals? Rat, Bear, Hen

**(CO1, Knowledge)**

1. They are mammals
2. They are omnivores
3. They are carnivores
4. None of these

97. Which among the following are the scope of Environmental Studies?  **(CO1, Knowledge)**

1. Conservation and management of natural resources
2. Conservation of biodiversities
3. Control of environmental pollutions
4. All the above

98. During water cycle, the formation of clouds is \_\_\_\_\_\_\_\_\_\_\_\_ **(CO1, Knowledge)**

1. Evaporation b)Condensation c)Precipitation d)Transpiration

99. Which layer protects us from harmful UV rays of the sun? **(CO1, Knowledge)**

1. Stratosphere
2. Mesosphere
3. Troposphere
4. Exosphere

100. Statement P: Natural things can be living or non-living. Statement Q: Living things can only be natural. **(CO1, Knowledge)**

1. Both statements P and Q are correct
2. Statement P is correct and Q is incorrect
3. Statements P and Q are false
4. Statement P is incorrect and Q is correct