

SEAT No. _____

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SARDAR PATEL UNIVERSITY

[99]

S. Y. B.Sc. 3RD SEMESTER EXAMINATION

31st December, 2020, Thursday

2.00 P.M to 4.00 P.M

Fundamentals of Environmental Science(US03CENV21)

Total Marks-70

Q.1 Multiple Choice Questions (one mark each)

[10]

1. _____ system can exchange both energy and matter with its surroundings.
(a) Open (b) Close (c) Isolated (d) All of above
2. The lapse rate is considered _____ when the temperature decreases with elevation.
(a) Positive (b) Negative (c) Zero (d) None of above
3. _____ types of clouds are white/light grey clouds, which looklike floating cotton balls.
(a) Stratus (b) Stratocumulus (c) Cumulus (d) Nimbostratus
4. Chemical analysis is divided into _____ analysis
(a) quantitative (b) qualitative analysis (c) both of above (d) none of above
5. In chemical _____ reactions, two solutions of soluble salts are mixed resulting in an insoluble solid
(a) Decomposition (b) Combustion (c) Neutralization (d) Precipitation
6. There are primarily _____ views on environmental ethics
(a) Two (b) Three (c) Four (d) Five
7. Abundance is the _____ of a population
(a) plan (b) outline (c) shape (d) size
8. Guiding principles of Environmental ethics were subjected by Milbreth in _____
(a) 1974 (b) 1981 (c) 1987 (d) 1992
9. Odours and flavours are _____ air pollutants.
(a) outdoor (b) indoor (c) none of these (d) both a & b
10. The headquarter of Central pollution Control Board is at _____
(a) Nagpur (b) Lucknow (c) New Delhi (d) none of these

Q.2 Answer as true or false

[08]

1. Light wave requires material medium to travel from place to place.
2. The degree of randomness or disorder in a system is called enthalpy.
3. Amino acids in proteins are called alpha amino acids
4. Atomic number is proton mass + neutron mass
5. In Lag phase, the population grows rapidly
6. Biotic potential is maximum reproductive capacity of an organism
7. WWF deals with Wild Life.
8. Ground level ozone is a primary air pollutant.

[1]

[P.T.O.]

Q3. Answer the questions in short (Attempt any ten)

[20]

1. Explain in short about energy transfer with its types.
2. What is lapse rate? Explain shortly with its types.
3. State second law of thermodynamic with an example.
4. Give a note on differences between Normality and Molarity.
5. Write in brief on Dalton's Atomic Theory
6. Discuss about Arrhenius acid and base
7. Write in brief about objectives of environmental management
8. Give a short note on Exponential growth
9. Which are the environmental obligations to future generation?
10. What do you mean by primary air pollutant?
11. What is rehabilitation?
12. What is IUCN?

Q4. Long Answer Questions (Attempt any 4)

[32]

1. Write a detailed note on properties of light.
2. Explain clouds and its types in details.
3. Write about two types of electrochemical cells with appropriate diagram
4. Discuss proteins in detail as an important biomolecules
5. Discuss in detail about guiding principles of environmental ethics
6. Write a detail note on analysing pattern of population growth
7. Explain in detail about Sustainable development.
8. Write a detailed note on Resettlement.

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[2]