



Question Bank For PG Course

Zoology

Paper-4A

BASIC PHYSICAL AND CHEMICAL PRINCIPLES : PGZO-IVA

Question 1

Which is the most common form of energy transfer during a chemical reaction ?

Question 2

What is involved in all chemical reactions ?

Question 3

What is the correct unit for enthalpy and enthalpy change ?

Question 4

What is an example of endothermic reaction?

Question 5

What is the characteristic feature of a closed system?

Question 6

What is the correct definition of an open system ?

Question 7

What is defined by the second law of thermodynamics ?

Question 8

What is the name of process that do not involve heat ?

Question 9

What is the correct example of hydrogen bond?

Question 10

What is the characteristic feature during the formation of chemical bond ?

Question 11

Which is the main source of nuclear radiations?

Question 12

What will be the medical condition caused by the high exposure of radiation?

Question 13

Which statement about the half-life of a source is correct?

Question 14

What happens to the half-life of a radioactive substance as it decays?

Question 15

What is the characteristic feature of ionic compounds ?

Question 16

Which thermodynamic quantities is not a state of function?

Question 17

When the entropy will usually increase ?

Question 18

What is the characteristics of an isothermal expansion of an ideal gas ?

Question 19

Which one of the following is not an isotope of hydrogen?

Question 20

When Hydrogen can behave as a metal?

Question 21

When entrophy will decrease ?

Question 22

What will be the final temperature when an ideal gas is compressed adiabatically and reversibly?

Question 23

What is the characteristic feature of an adiabatic process?

Question 24

Which is not a spontaneous process?

Question 25

What is the characteristic feature of naturally occurring spontaneous process?

Question 26

What are the components of buffer mixture?

Question 27

What is the normal pH of human blood?

Question 28

What is the van Der Waals radius of hydrogen atom in water molecule?

Question 29

Why there is a polarity in water molecules?

Question 30

What is the most important lesion produced in chromosomal DNA by exposure to ionizing radiation?