

Energetics

Sr	Questions	Answers Choice
1	Which is not produced in an aerobic respiration.	A. Carbon dioxide B. Lactic acid C. Water D. Energy
2	The word energy is used in physics for the first time.	A. 1902 B. 1858 C. 1805 D. 1802
3	When old bonds are broken, the energy is.	A. Release B. Remain same C. Consume D. None of these
4	All chemical reaction involves.	A. Enzymes B. Catalyst C. Energy changes D. All of these
5	Aerobic respiration releases.....energy than anaerobic respiration.	A. Equal B. Less C. More D. None of these
6	Formation of NO is	A. Exothermic B. Endothermic C. No Heat Change D. None of these
7	Bond dissociation for O ₂ is	A. 505 kJ/mol B. 705 kJ/mol C. 605 kJ/mol D. 498 kJ/mol
8	The part of the universe that we want to focus our attention called.	A. Surrounding B. Energy C. System D. Both a and b
9	The enthalpy of reaction $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$	A. -571.6 kJ B. -110.5 kJ C. -393.5 kJ D. +53.8 kJ
10	-----acts as reserve energy sources.	A. Enzymes B. Vitamins C. Proteins D. Lipids
11	Bond formation energy of one O-H bond is.....	A. 488 kJ/mol B. 484 kJ/mol C. 486 kJ/mol D. 489 kJ/mol
12	When NaOH and HCl are mixed the temperature increases. The reaction	A. Exothermic with a negative enthalpy change. B. Endothermic with a positive enthalpy change. C. Endothermic with a negative enthalpy change D. Exothermic with a positive enthalpy change
13	If the Delta H value is negative then reaction will be	A. Endothermic B. Exothermic C. May or may not be exothermic or endothermic D. None of these
14	During the glycolysis net ATP produced are.	A. 2 B. 4 C. 6 D. 8

15	Who use the word energy for the 1st time	A. Rutherford B. Bohr C. Thomas Young D. None of these
16	----- of the energy used by traditional electric bulb is wasted in producing heat.	A. 60% B. 50% C. 70% D. 90%
17	The enthalpy of reaction $C + O_2 \rightarrow CO_2$	A. -571.6 kJ B. -393.5 kJ C. +53.8 kJ D. -110.5 kJ
18	Which is released in anacrobic respiration.	A. Stearic acid B. Citric acid C. Lactic acid D. Amino Acid
19	Activation energy of a chemical reaction must be..... the everage kinetic energy of reacting molecules.	A. Equal to B. Grether than C. Lower than D. None of these
20	Bond dissocialation for H_2 is	A. 435 kJ/mol B. 440 kJ/mol C. 430 kJ/mol D. 445 kJ/mol