

Energetics

Sr	Questions	Answers Choice
1	----- of the energy used by traditional electric bulb is wasted in producing heat.	A. 60% B. 50% C. 70% D. 90%
2	During the glycolysis net ATP produced are.	A. 2 B. 4 C. 6 D. 8
3	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
4	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
5	Bond dissociation for H ₂ is	A. 435 kJ/mol B. 440 kJ/mol C. 430 kJ/mol D. 445 kJ/mol
6	The part of the universe that we want to focus our attention called.	A. Surrounding B. Energy C. System D. Both a and b
7	Bond dissociation for O ₂ is	A. 505 kJ/mol B. 705 kJ/mol C. 605 kJ/mol D. 498 kJ/mol
8	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
9	----- acts a catalyst promoting the breakdown of ozone.	A. I ₂ B. Br ₂ C. Cl ₂ D. None
10	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
11	Activation energy of a chemical reaction must be..... the average kinetic energy of reacting molecules.	A. Equal to B. Greater than C. Lower than D. None of these
12	Which is not produced in an aerobic respiration.	A. Carbon dioxide B. Lactic acid C. Water D. Energy
13	Which is released in anaerobic respiration.	A. Stearic acid B. Citric acid C. Lactic acid D. Amino Acid
14	Who use the word energy for the 1st time	A. Rutherford B. Bohr C. Thomas Young D. None of these

15	The enthalpy of reaction $H_2 + I_2 \rightarrow 2HI$	A. -571.6 kJ B. +53.8 kJ C. 11 kJ D. -393.5 kJ
16	The word energy is used in physics for the first time.	A. 1902 B. 1858 C. 1805 D. 1802
17	The enthalpy of reaction $2H_2 + O_2 \rightarrow 2H_2O$	A. -571.6 kJ B. -110.5 kJ C. -393.5 kJ D. +53.8 kJ
18	Aerobic respiration releases.....energy than anaerobic respiration.	A. Equal B. Less C. More D. None of these
19	Formation of NO is	A. Exothermic B. Endothermic C. No Heat Change D. None of these
20	All chemical reaction involves.	A. Enzymes B. Catalyst C. Energy changes D. All of these