

## Energetics

Sr	Questions	Answers Choice
1	The word energy is used in physics for the first time.	A. 1902 B. 1858 C. 1805 D. 1802
2	Aerobic respiration releases.....energy than anaerobic respiration.	A. Equal B. Less C. More D. None of these
3	Which is released in anaerobic respiration.	A. Stearic acid B. Citric acid C. Lactic acid D. Amino Acid
4	Bond dissociation for O <sub>2</sub> is	A. 505 kJ/mol B. 705 kJ/mol C. 605 kJ/mol D. 498 kJ/mol
5	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
6	When new bonds are formed, the energy is	A. Consume B. Remain same C. Release D. None of these
7	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
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	All chemical reaction involves.	A. Enzymes B. Catalyst C. Energy changes D. All of these
10	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
11	When old bonds are broken, the energy is.	A. Release B. Remain same C. Consume D. None of these
12	..... acts as a catalyst promoting the breakdown of ozone.	A. I <sub>2</sub> B. Br <sub>2</sub> C. Cl <sub>2</sub> D. None
13	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
14	No reaction occurs if the energy of reacting particles.....activation energy.	A. Lower than B. Greater than C. Nearest to D. Equal to
15	During the glycolysis net ATP produced are.	A. 2 B. 4 C. 6 D. 8

16	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
17	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
18	Formation of NO is	A. Exothermic B. Endothermic C. No Heat Change D. None of these
19	Bond dissociation for H <sub>2</sub> is	A. 435 kJ/mol B. 440 kJ/mol C. 430 kJ/mol D. 445 kJ/mol
20	Washing clothes at 140 °F uses almost the energy as at 140 °F wash	A. Half B. Thrice C. Twice D. None of the above