

Test Jot Series

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Student Name:			Class:	9th
Paper Type:	Test Series		Subject:	Chemistry (SNC)
Paper Time:	45		Maximum Marks:	30

Q1. Choose the correct option. (6X1=6)

1. Who use the word energy for the 1st time:

(A) Thomas young	(B) Bohr	(C) Rutherford	(D) None of these
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2. The word energy is used in physics for the first time:

(A) 1802	(B) 1805	(C) 1858	(D) 1902
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3. The enthalpy of reaction $C + \frac{1}{2}O_2 \rightarrow CO$

(A) -571.6kJ	(B) -100.5kJ	(C) -393.5kJ	(D) +53.8kJ
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4. What is the energy required for a reaction to occur called?

(A) Activation energy	(B) Reaction energy	(C) Bond energy	(D) Heat energy
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5. What happens to the reactant molecules during a chemical reaction?

(A) The gain energy	(B) The lose energy	(C) They remain unchanged	(D) The one destroyed
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6. Which of the following is a byproduct of anaerobic respiration in muscles?

(A) Lactic Acid	(B) Ethanol	(C) Carbon dioxide	(D) Water
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Q2. Write down short answers of following questions. (7X2=14)

[i] What is the difference between enthalpy and enthalpy change?	[ii] Explain why the reaction between atmospheric gases oxygen and nitrogen does not take place under normal conditions? But in the presence of lightning these gases react to give NO. The reaction stops as soon as the lightning stops. (Constructed Response Question)
[iii] Identify the following reactions endothermic or exothermic? $C + O_2 \rightarrow CO_2$	[iv] Define combustion? [v] Depict the transition state for the following reaction. $H_2 + Cl_2 \rightarrow 2HCl$
[vi] How lipids are source of energy?	[vii] What is glycogen?

Q3. Write detailed answers of the following questions.(Answer any 2) (2X5=10)

1. Describe the concept of a system and its surroundings in chemistry provide example to illustrate the difference between the two.
2. Explain the difference between the terms heat and enthalpy.
3. Explain how enthalpy of reaction is measured?