



PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

THIRD TERM TEST 2018 SCIENCE

Grade 06

Two hours

Name / Index No. :

PART - I

- Answer all the questions. Draw a line under the most suitable answer.

01. An autotrophic organism is,
(1) Amoeba (2) Bacteria (3) Balsam (4) Fungi
02. The correct answer which include the properties of a liquid substance is,
(1) Having a specific volume and a definite shape.
(2) Having a specific volume and not having a definite shape.
(3) Not having a specific volume and having a definite shape.
(4) Not having a specific volume or a definite shape.
03. The water in a tank is called as,
(1) Marine water (2) Fresh water
(3) Brackish water (4) Brackish water mixed with marine water
04. A biomass among the following energy sources is,
(1) Coconut shells (2) LP Gas (3) Coal (4) Diesel
05. What is the type of power plant that does not exist in Sri Lanka?
(1) Coal power plants (2) Hydro power plants
(3) Wind power plants (4) Nuclear power plants
06. The symbol used to display the LED is,
(1)  (2)  (3)  (4) 
07. The unnecessary thing to create a simple cell is,
(1) Copper plate (2) Zinc plate
(3) Sulphuric acid (4) Carbon plate
08. The ability of a metal to be drawn into thin sheet without breaking by hammering is,
(1) Brittleness (2) Hardness
(3) Malleability (4) Ductility

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Xiaolong Qi



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Resources in Education ,1994 *We Could Not Fail* Richard Paul,Steven Moss,2015-05-01 This surprising and insightful history profiles ten African American engineers mathematicians and others who worked for NASA s space program Lauren Helmuth New York Times Book Review The Space Age began just as the struggle for civil rights forced Americans to confront the bitter legacy of slavery discrimination and violence against African Americans NASA itself became an agent of social change with President Kennedy opening its workplaces to African Americans In *We Could Not Fail* Richard Paul and Steven Moss profile ten pioneer African American space workers whose stories illustrate the role NASA and the space program played in promoting civil rights Paul and Moss recount how these technicians mathematicians engineers and an astronaut candidate surmounted barriers and navigated being the sole African American in a NASA work group These brave and determined men went on to help transform Southern society by integrating colleges patenting new inventions holding elective office and reviving and governing defunct towns Adding new names to the roster of civil rights heroes and a new chapter to the story of space exploration *We Could Not Fail* demonstrates how African Americans broke the color barrier by competing successfully at the highest level of American intellectual and technological achievement **New York State Education** ,1959 **Nuclear Science Abstracts** ,1975-10 The City Record New York (N.Y.),1902 **Report of the International Clearinghouse on Science and Mathematics Curricular Developments** International Clearinghouse on Science and Mathematics Curricular Developments,1972 **Research in Education** ,1969 Report Upon State Education in Great Britain, France, Switzerland, Italy, Germany, Belgium, and the United States of America Richard Laishley,1886 **Journal of the Telegraph** ,1869 *School Life* ,1938

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 $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) + \text{C}_2\text{H}_2(\text{g}) \rightarrow \text{O}_2(\text{g}) + \text{C}_2\text{H}_6(\text{g})$ $\Delta h = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) + \text{H}_2(\text{g}) + \frac{1}{2}\text{O}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g}) + \text{O}_2(\text{g})$ $\Delta h = 71.2 \text{ kJ}$
 $\text{CO}_2(\text{g}) + 3 \text{ H}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g})$ $\Delta h = 283 \text{ kJ}$

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$3 \text{ O}_2 \text{ g} + 2 \text{ CO}_2 \text{ g} + 2 \text{ H}_2 \text{ O l} + 1411 \text{ kJ mole}^{-1}$
 $2 \text{ H}_2 \text{ g} + 7 \text{ O}_2 \text{ g} + 2 \text{ CO}_2 \text{ g} + 3 \text{ H}_2 \text{ O l} + 1560 \text{ kJ mole}^{-1}$
 $2 \text{ H}_2 \text{ g} + 1 \text{ O}_2 \text{ g} + 2 \text{ H}_2 \text{ O l} + 285 \text{ kJ mole}^{-1}$

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web hess s law worksheet answers 1 calculate h for the reaction $\text{C}_2\text{H}_4(\text{g}) + \text{H}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g})$ from the following data $\text{C}_2\text{H}_4(\text{g}) + 3\text{O}_2(\text{g}) \rightarrow 2\text{CO}_2(\text{g}) + 2\text{H}_2\text{O}(\text{l})$ $\Delta H = 1411 \text{ kJ}$ $\text{C}_2\text{H}_6(\text{g}) + 3\frac{1}{2}\text{O}_2(\text{g}) \rightarrow 2\text{CO}_2(\text{g}) + 3\text{H}_2\text{O}(\text{l})$ $\Delta H = 1560 \text{ kJ}$

7a first law enthalpy calorimetry and hess s law worksheet - Oct 05 2022

web mar 13 2023 be able to use hess s law to calculate reaction enthalpies first law of thermodynamics energy is the ability to do work or transfer heat work is the transfer of energy from one body to another in a sense work is energy in the process of transfer

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web may 8 2015 hess law lab by maya parks partners ben seufert kelsea floyd convert joules to kj in your final answer multiply the mass by the change in temperature and the c given trial 1 use hess s law and the following equations and Δh values to determine the heat of reaction for the reaction C_2H_4

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web thus for reaction 9 2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O $\Delta H = 55.8 \text{ kJ}$ as shown note that the enthalpy change $\Delta H_{\text{products}} - \Delta H_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta H_{\text{products}} > \Delta H_{\text{reactants}}$

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web hess s law enthalpy of reaction and hess s law abstract the goal of this lab is to perform experiments and practice hess s law by determining enthalpy change in chemical reactions in this lab three experiments were conducted in order to test hess s law the experiments required observing and collecting data on three different reactions

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web objective the purpose of the lab is to combine two reactants in the calorimeter and measure the heats of reaction in solution eventually allowing an individual to prove or disprove hess s law introduction thermodynamics is the study of energy exchanged between the system and the surroundings

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web 3 12 hess s law in this experiment you will measure the amount of heat released in these three related exothermic reactions 1 $\text{NaOH}(\text{s}) + \text{Na}^+(\text{aq}) + \text{OH}^-(\text{aq}) \rightarrow \text{H}_2\text{O}(\text{l})$ 2 $\text{NaOH}(\text{s}) + \text{H}^+(\text{aq}) + \text{Cl}^-(\text{aq}) \rightarrow \text{H}_2\text{O}(\text{l}) + \text{Na}^+(\text{aq}) + \text{Cl}^-(\text{aq})$ 3

