

FINAL EXAMANITION IN PHYSICAL SCIENCE

I. Multiple Choices: For each of the following items, choose the BEST answer. On the answer sheet provided, shade the bubble that corresponds to the letter of your choice.

- The chemical formula of caffeine is $C_8H_{10}N_4O_2$. What is its molecular mass?
A. 165 g/mol B. 172 g/mol C. 194 g/mol D. 208 g/mol
- People usually use hydrogen peroxide (H_2O_2 ; molar mass = 34.02 g/mol) to clean their wounds. If Ricardo Delasay used 1.0 g of H_2O_2 to clean his gunshot wound, how many moles of H_2O_2 did he use?
A. 0.035 mol B. 0.030 mol C. 0.029 mol D. 0.0025 mol
- Methane (CH_4 ; molar mass = 16.04 g/mol) is one of the greenhouses gases. If 32.08 g of CH_4 was released in the atmosphere, how many molecules of CH_4 were added in the atmosphere?
A. 1.20×10^{26} B. 1.20×10^{23} C. 6.02×10^{26} D. 6.02×10^{23}

For numbers 4 and 5, consider the problem below:

- Iron (III) oxide reacts with carbon monoxide to form iron and carbon dioxide. Which is the balanced chemical equation that represents the reaction?
A. $Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$ C. $2Fe_2O_3 + 3CO \rightarrow 4Fe + 3CO_2$
B. $Fe_2O_3 + CO \rightarrow FeCO_2$ D. $Fe_2O_3 + 3CO \rightarrow Fe + 3CO_2$
- What mass of iron (III) oxide is needed to produce 5.6 kg of iron?
A. 4.0 kg B. 8.0 kg C. 12 kg D. 16 kg

For numbers 6-8, consider the problem below:

Ammonium carbonate decomposes to form ammonia gas, carbon dioxide and water. The reaction is represented by the equation below:



- How many moles of ammonia are formed for every mole of the reactant used?
A. 1 mole B. 2 moles C. 2.5 moles D. 3 moles
- How many moles of the reactant is required to produce 22 grams of CO_2 ?
A. 0.50 mole B. 1.0 mole C. 1.5 mole D. 2.0 moles
- How many grams of $(NH_4)_2CO_3$ is required to produce 1.5 moles of water?
A. 49 g B. 96 g C. 144 g D. 192 g

For numbers 9 and 10, consider the problem below:

45.9 g of K_2CO_3 was reacted with an excess of HCl , yielding 48.25 g of KCl .



- What is the theoretical yield?
A. 46.3 g B. 48.0 g C. 48.3 g D. 49.5 g
- What is the percent yield?
A. 92.5 % B. 93.5 % C. 97.0 % D. 97.5 %
- Which of the following will cause a soap to reduce its cleaning activity?
A. Alkyl hydrogen sulfate C. presence of surfactants
B. Hard water D. soft water
- Which of the following chemicals are linked to breast cancer in women?
A. Parabens B. PEG C. Paraffin wax D. BHA
- Which of the following disinfectants has a fungicidal property and is a potential carcinogen?

Physical Science Paper Final November 2014 Examination Grade1

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Roy, V. Ramachandran**



Physical Science Paper Final November 2014 Examanition Grade1:

Daily Graphic Ransford Tetteh, 2014-09-19 **pHealth 2015** B. Blobel, M. Lindén, M.U. Ahmed, 2015-05-26 Smart mobile systems smart textiles smart implants and sensor controlled medical devices are among the recent developments which have become important enablers for telemedicine and next generation health services Social media and gamification have added yet another dimension to Personalized Health pHealth This book presents the proceedings of pHealth 2015 the 12th International Conference on Wearable Micro and Nano Technologies for Personalized Health held in Västerås Sweden in June 2015 The conference addressed mobile technologies knowledge driven applications and computer assisted decision support as well as apps designed to support the elderly and those with chronic conditions in their daily lives The 23 conference papers three keynotes and two specially invited contributions included here address the fundamental scientific and methodological challenges of adaptive autonomous and intelligent pHealth approaches Participants at this truly interdisciplinary conference included representatives from all relevant stakeholder communities and the topics covered will be of interest to all those whose work involves improving the quality of medical services optimizing industrial competitiveness and managing healthcare costs Measurements in Evaluating Science Education Amy J. Catalano, Michael A. Marino, 2020-05-06 Measurements in Evaluating Science Education is a comprehensive intuitive guide to many of the key instruments created to assess science education environments learning and instruction Nearly 70 different surveys tests scales and other metrics are organized according to the qualities the measures attempt to gauge such as attitudes toward science beliefs and misconceptions self efficacy and content knowledge Summaries of each instrument usage information developmental history and validation and reported psychometric properties make this an essential reference for anyone interested in understanding science education assessment **Innovative Process Development in Metallurgical Industry** Vaikuntam Iyer Lakshmanan, Raja Roy, V. Ramachandran, 2015-10-26 This book describes the phases for innovative metallurgical process development from concept to commercialization Key features of the book include Need for process innovation Selection and optimization of process steps Determination of the commercial feasibility of a process including engineering and equipment selection Determination of the environmental footprint of a process Case study examples of innovative process development **ICGEO 2022** Ernawati Ernawati, Yurni Suasti, Iswandi Iswandi, Dedi Hermon, Robbi Rahim, 2023-06-20 The 2nd Annual Conference of the International Conference of Geography ICGEO was held on November 19 2022 with the theme Discovering New Geography Trends The conference was organized by the Department of Geography Faculty of Social Sciences Universitas Negeri Padang in West Sumatra Indonesia The conference utilized a combination of virtual and offline methods The conference covered various topics including advancements in geomorphology meteorology climatology hydrology historical geography transport geography industrial geography rural settlement geography and the ecology of agricultural systems Additionally the significance of geography in area studies was discussed The conference

commenced by examining the progress made in the field of geography Subsequently it explored diverse aspects of urban geography the role of geography in physical and economic planning studies on rural areas and geographical research concerning local government This monograph will be valuable for geography teachers students and practitioners

American Universities and Colleges, 2014-10-08 No detailed description available for American Universities and Colleges

Pathology - E-Book Catherine Cavallaro Kellogg, Kenda S. Fuller, 2014-11-05 Full color interior design photos and illustrations Chapter on Behavioral Social and Environmental Factors Contributing to Disease and Dysfunction includes clinical models of health variations in client populations and lifestyle factors that are important to consider when treating a patient A Therapist's Thoughts offers personal and clinical insights from experienced therapists specializing in cystic fibrosis lymphedema and psychological problems Now covers the World Health Organization's International Classification of Functioning Disability and Health ICF a model that includes the level of participation in desired activities as a criterion for establishing status and goals UPDATED Evidence based content with over 6 000 references EXPANDED chapter on the lymphatic system features additional sections on lymphatic diseases plus exercise guidelines education and a home program for patients with a compromised lymphatic system UPDATED chapter on lab values features new information on potassium levels and exercise albumin levels related to nutrition and wound healing and coagulation studies in relation to exercise EXPANDED chapter on Psychosocial Spiritual Impact on Health Care offers new information on fear avoidance behaviors substance abuse malingering personality disorders abuse eating disorders and the impact of nonphysical trauma to health and disease as well as combat trauma torture and the effects of war Appendix B Guidelines for Activity and Exercise includes updated information on aquatic physical therapy from leaders in the field emphasizing precautions and contraindications for this modality

Resources in Education, 1986

Handbook of Giftedness in Children Steven I. Pfeiffer, 2018-06-09 In one comprehensive resource this superb handbook covers everything you need to know about the subject It brings together leading experts from the fields of psychology and education combining theory and applied empirical research on such crucial topics as conceptualization types of intelligence developmental considerations and ethical and legal concerns Particular attention is given to social and family contexts and evidence based strategies and interventions offer solid guidelines on assessment curriculum design and encouraging and nurturing talent from preschool through adolescence

[Process Data in Educational and Psychological Measurement, 2nd Edition](#) Hong Jiao, Qiwei He, Bernard Veldkamp, 2021-12-13 Publisher's note In this 2nd edition The following article has been added Jiao H He Q and Veldkamp BP 2021 Editorial Process Data in Educational and Psychological Measurement Front Psychol 12 793399 doi 10 3389 fpsyg 2021 793399 The following article has been added Reis Costa D Bolsinova M Tijnstra J and Andersson B 2021 Improving the Precision of Ability Estimates Using Time On Task Variables Insights From the PISA 2012 Computer Based Assessment of Mathematics Front Psychol 12 579128 doi 10 3389 fpsyg 2021 579128 The following article has been removed Minghui L Lei H Xiaomeng C and Potm ilc M

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