

PART B

ESSAY

[100 marks]

2 hours

Answer four questions in all: three questions from Section I and one question from either Section II or Section III.

All questions carry equal marks.

Credit will be given for clarity of expression and orderly presentation of material.

SECTION I

FOR ALL CANDIDATES

Answer three questions from this section.

1. (a) Define each of the following terms and indicate one use of each:

- (i) Nuclear fission;
(ii) Nuclear fusion.

[4 marks]

- (b) Alpha particle emission by $^{235}_{92}\text{U}$ produces an element A. Beta particle emission by the particle A produces another element B. Element B also undergoes alpha particle emission to produce $^{227}_{89}\text{Ac}$. Write balanced equations to represent the above statement.

[4 marks]

- (c) The models below represent the filling of orbitals in an atom.



II

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State which rule(s) is/are violated or obeyed by each model.

[6 marks]

- (d) Explain why the boiling point of H_2S with relative molecular mass of 34 is lower than that of H_2O with relative molecular mass of 18.

[4 marks]

- (e) HCl is passed into each of the following solvents:

- (i) water;
(ii) methylbenzene.

- I. State the effect of each solution on blue litmus paper.
II. Compare the electrical conductivities of the two solutions.

[4 marks]

- (f) Zinc dust is added to copper (II) tetracosulphate (VI) solution.

State (i) what is observed;

(ii) the type of reaction that occurs.

[2 marks]

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Vera Liondas



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School Science Practical Work in Africa Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach. The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work. This book will be of great interest to academics, researchers and post graduate students in the fields of science education and educational policy. **Jos Educational Forum**, 2009 Nigerian Journal of Science and Educational Research, 2007

Annual Conference Proceedings Science Teachers Association of Nigeria. Conference, 2006 **West African Journal of Education**, 1964 Daily Graphic Ransford Tetteh, 2011-02-23 *Report* University of Reading. National Institute for Research in Dairying, Shinfield, 1939 Report, 1941 **Report** National Institute for Research in Dairying (Great Britain), 1941 *West Africa*, 1981-09 **African Concord**, 1985 Report - National Institute for Research in Dairying National Institute for Research in Dairying (Great Britain), 1941 Thisweek, 1987 **Education Sector Reform in Nigeria** David Nwoye Ezech, Nkadi Onyegegbu, 2008 *Happyhome*, 1977 Drum, 1977 **Chemistry** Phillip John Buddle, J. S. Mackay, 1970 **Chemistry Questions and Answers** Kingsley Augustine, 2017-08-02 This is a chemistry book which is suitable for students in high schools or secondary schools. It will also serve as a useful tool for students who are preparing for entrance examinations into colleges and universities. First year students in the higher institutions taking courses in chemistry will also find this book very useful. Numerous topics in chemistry have been covered by the questions contained in this handy book. At the end of the question section comes the answer section which supplies all answers to the questions. Therefore students are thus presented with an effective means of self assessment whereby they can determine their individual strengths and revision needs. A constructive review of this chemistry handbook on objective questions will be highly appreciated from buyers so as to give ideas to others who intend to purchase a copy of this book and also to be a form of advice for the author when revising the book. **Chemistry** Vera Liondas, 1978 College Chemistry MCQs Arshad Iqbal, 2017-08-29 College chemistry multiple choice questions has 1410 MCQs. College chemistry quiz questions and answers. MCQs on organic chemistry, basic chemistry, atomic structure, chemical formulas, chemical equations, gas laws, Charles's law, Boyle's law, inorganic chemistry, MCQs with answers, chemical science, chemical reactions, chemical bonding, liquids and solids, MCQs and quiz study guides for SAT, ACT, GAT, GRE, CLEP, GED practice tests, College chemistry multiple choice quiz.

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