

SECTION B

ESSAY

1½ hours

[60 marks]

*Answer **eight** questions in all.*

Five questions from Part I and **three** questions from Part II.

PART I

[15 marks]

*Answer any **five** questions from this part.*

All questions carry equal marks.

1. (a) Define strain.
(b) A rubber band is stretched to twice its original length. Calculate the strain on the rubber band.
2. State **three** materials used for making optical fibres.
3. Name **three** classes of magnetic materials.
4. (a) What is an *intrinsic semiconductor*?
(b) Distinguish between the *p-type* and *n-type* semiconductors.
- 5.
6. A black body radiates maximum energy when its surface temperature T and the corresponding wavelength λ_{max} are related by the equation, $\lambda_{\text{max}} T = \text{constant}$. Given the values of the constant and surface temperature as $2.9 \times 10^{-3} \text{ mK}$ and 57°C respectively, Calculate the frequency of the energy radiated.
7. (a) What does the acronym *LASER* stand for?
(b) What is a *laser*?

(PART II)

[45 marks]

*Answer any **three** questions from this part.*

All questions carry equal marks.

8. (a) Define *uniform acceleration*,
(b) Forces act on a car in motion, list the:
(i) horizontal forces and their directions;
(ii) vertical forces and their directions,
(c) A car starts from rest and accelerate uniformly for 20s to attain a speed of 25 ms^{-1} . It maintains this speed for 30s before decelerating uniformly to rest. The total time for the journey is 60 s.
(i) Sketch a velocity-time graph for the motion,
(ii) Use the graph to determine the:
(a) total distance travelled by the car;
(b) deceleration of the car.

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WAEC in Review Benjamin Freeman Jr.,2014-11-07 WAEC in Review is a practical intervention strategy in transforming the weakening educational system of Liberia where academic excellence is unceasingly diminishing LIPACE Pilot Study Guide is not only a landmark achievement in the educational history of Liberia but a remarkable strive towards the proper preparation of Liberian students for future diets of the WAEC exam As a member of the National Committee of the West African Examinations Council and a Stakeholder in the Liberian Education System I wish to recommend the use of this study guide to adequately prepare each and every Liberian student for future examinations thereby setting the stage for an easy transition to the emerging West African Senior Secondary Examinations WASSCE I am explicitly confident that you will definitely find your journey through this guide very rewarding as you prepare to sit the next WAEC Exam David S Massaquoi Sr director of Education The Salvation Army Liberia Command Education Secretariat Our students sit the exam in constant fear of proctors and supervisors They know nothing about the exam and its structure and this fear lead to them failing massively We need to build the confidence level of our students and help them to study hard and understand the roles of proctors and supervisors to stop the intimidation during the exam Thanks to LIPACE and the Turning the Tide project we have helped our students achieved an amazing achievement for the first time in the history of Gbarpolu County where all senior students successfully passed the exam Lartey Bemah principal of Bopolu Public School 2012 2013 Gbarpolu County Liberia *West African Journal of Education* ,1971 **Physics for You** Keith Johnson,2001 The most popular series for GCSE has been updated to offer comprehensive coverage of the revised GCSE specifications Physics for You has been updated in line with the revised National Curriculum requirements *GCSE Physics for You* Keith Johnson,1986

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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 *Artificial Intelligence in Education* Andrew M. Olney,Irene-Angelica Chounta,Zitao Liu,Olga C.

Santos,Ig Ibert Bittencourt,2024-07-01 This book constitutes the refereed proceedings of the 25th International Conference on Artificial Intelligence in Education AIED 2024 held in Recife Brazil in July 8 12 2024 Proceedings The 49 full papers and 27 short papers presented in this book were carefully reviewed and selected from 334 submissions The papers present result in high quality research on intelligent systems and the cognitive sciences for the improvement and advancement of education

The British Library General Catalogue of Printed Books 1976 to 1982 British Library,1983 **Proceedings of the International Seminar Misconceptions in Science and Mathematics, June 20-22, 1983, Cornell University, Ithaca, NY, USA ,1983** **My Years in the Early Peace Corps: Nigeria, 1964-1965** Sonja Krause Goodwin,2021-09-17 In this book Sonja Krause Goodwin recounts her experience joining the Peace Corps in 1964 and describes the training she underwent to teach in Nigeria at Columbia Teachers College in New York City Goodwin tells readers about her service as a University teacher in physics while also serving as head of the Physics Department at Lagos University in Nigeria She also describes her vacation travels during that time mostly in Nigeria including an attempt to climb Mt Cameroon She writes about her interactions with her students her fellow University teachers and other University employees her fellow Peace Corps volunteers and other expatriates and Nigerians whom she met under during her travels Goodwin also delves into the politically motivated university crisis that led to the exodus from the university and Nigeria of almost all the expatriate teaching staff of the university including the Peace Corps volunteers She also discusses some of her work for the West African Examinations Council and the Aptitude Testing Unit in Lagos while waiting to be sent to another assignment for her second year in the Peace Corps

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