

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.

14 Waec Physics Theory Answer

Brian Wilkinson, Gil Urquhart



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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 National Bibliography Arthur James Wells,1968 *Advanced Higher Physics - Questions and Solutions* Peter Burnett,2018-12-03 Containing over 450 questions most of them multi part the Advanced Higher Physics Questions Solutions book offers comprehensive coverage of the SQA s course in Advanced Higher Physics All types of question are covered including familiarising yourself with a new equation multipart questions leading you to a solution in easy steps applying concepts in unfamiliar situations and fill in the blanks With over 25 years experience of teaching Advanced Higher Physics the author is able to provide questions covering every level of difficulty Detailed solutions some of which are very detailed guide the student through each step towards the answers The Advanced Higher Questions and Solutions book is ideal for use with its companion books Advanced Higher Physics Theory which covers in depth the SQA s Advanced Higher course Advanced Higher Physics Investigations Companion which includes detailed descriptions of 20 projects **Higher School Certificate 2 Unit and 4 Unit Physics** D. R. Humphrey,J. S. Mackay,1978 *A-level Physics Questions* Whitney French Bolton,William Bolton,1984 **Freeway Physics** Brian Wilkinson,Gil Urquhart,1986-01-01

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