

## 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  $\lambda_{\text{max}}$  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  $57^\circ\text{C}$  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  $25 \text{ ms}^{-1}$ . 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.

# 2014 Waec Physics Theory Answer

**Peipei Pang**



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let s look at each part of the member row expand collapse on the left hand side of the member row is a control used to expand and collapse each member row to show hide member details member name the name of the class member lookupcomponent in this example method param any required or optional params used by a method or passed to an event handler

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