

## 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.

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

- (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.

# Question On Physics Essay Waec 2014 2015

**AN Whitehead**



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