ESSAY

60 marks

1 hours

Answer eight questions in all.

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

#### PARTI

[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 λmax are related by the equation, λmax T = constant. Given the values of the constant and surface temperature as 2.9 x 10-3 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.

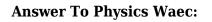
- 8 (a) Define uniform acceleration,
  - (b) Forces act on a car in motion, list the:
  - (il horizontal forces and their directions;
  - (ii) vertical forces and their directions,

(c) A car starts from rest and accelerate uniformly for 20s to attain a speed of 25 ms<sup>-1</sup>. 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,
- (iii) Use the graph to determine the:
- (a) total distance travelled by the car;
- (B) deceleration of the car.

# **Answer To Physics Waec**

**D** Siedentop



Unveiling the Magic of Words: A Report on "Answer To Physics Waec"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually aweinspiring. Enter the realm of "**Answer To Physics Waec**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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