

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 λ_{\max} are related by the equation, $\lambda_{\max} T = \text{constant}$.
Given the values of the constant and surface temperature as $2.9 \times 10^{-3} \text{ mK}$ and 57°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 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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Jianjun Gao



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