

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.

20ican Past Question And Answers Theory

JA Banks



20ican Past Question And Answers Theory:

Whispering the Techniques of Language: An Mental Quest through **20ican Past Question And Answers Theory**

In a digitally-driven earth where screens reign supreme and immediate conversation drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within words usually move unheard. Yet, nestled within the pages of **20ican Past Question And Answers Theory** a charming literary treasure sporting with natural thoughts, lies an exceptional journey waiting to be undertaken. Written by a skilled wordsmith, that wonderful opus invites visitors on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths with this touching review, we can embark upon a genuine exploration of the book is primary themes, dissect its fascinating publishing type, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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