|              | marks 17   |  |                  |                       | ctive Par          |          |            |            |           |           |           | 20 Min                 |       |
|--------------|--|--|------------------|-----------------------|--------------------|----------|------------|------------|-----------|-----------|-----------|------------------------|-------|
|              | You have four choices<br>relevant circle in front<br>will result in zero marks | of that question nun<br>s in that question.      | nber. Us         | e marker              | or pen to          | fill the | circles.   | Cutti      | ing or t  | tilling t | wo or m   | rect, fill<br>nore cir | cies  |
| (0)          | Four possible an aw<br>The dimensions of                                       | spring constant 'K'                              | ent are          |                       |                    |          | mark t     |            |           | answe     | -         |                        | 17    |
| 111)-        | (a) MLT <sup>-1</sup> With the rise of tem                                     |  | ity of s         | (c) MLT<br>ound:      | ns consta          |          |            | (d) A      | ecome     | e doub    | den .     |                        |       |
| (iiii)       | (a) Decreases The number of n >d (a) Zero                                      | (b) increases<br>es between two co<br>(b) 3      | nsecuti          |                       |                    |          |            | (0) 1      | CONTR     | 3 0000    |           |                        |       |
| (v)          | In stationary way e,   |  | y at the         |                       |                    |          |            | -          | onstan    |           |           |                        |       |
| ~)·          | Two light waves wit<br>(a) interference  |  | nt cann          | ot produc             | e:<br>zation in s  | same r   | olane      |            | return t  |           |           |                        |       |
| (w)          | Which of the follow<br>(a) Ultra-violet light                                  | ring will travel muc<br>(b) visible light        | h faster         | than other            | ers, throu         | gh th    | e optica   | al filbe   |           |           |           |                        |       |
| VE)          | The latent heat of fe<br>(a) 3.36×10° J/g                                      | usion of ice is:                                 | Jkg -1           | (c) 3.36              | ×10°Jks            | g-1      |            | (d)        | 3.36.7    | kg-1      |           |                        |       |
| viii)        | For an ideal gas sy<br>(a) Pressure  | (b) volume                                       |                  | (c) mass              |                    |          | o:         | (d) to     | empera    | ature     |           |                        |       |
| (ix)         | Which of the follow<br>(a) 5 cm  | (b) 5.4 cm                                       | of lengt         | (c) 5.41 c            | >m                 |          |            | (d) 5      | 5.412 c   | m         |           |                        |       |
| (×)          | In third quadrar t, d  | direction of resultar                            | nt vecto         | ris                   | ( = tan            | R .      | =          |            |           |           |           |                        |       |
| (xi)         | (a) 180° – ø<br>The disc used ty a   | (b) 180 + ¢<br>woman athlete has                 | s a mas          | (c) 360<br>s of 1 kg. |                    | t in N   | ewton i    | <b>s</b> = | 360*+     | 0         |           |                        |       |
| (×=)         | (a) 98 N<br>Motion of a body a   | (b) 100 N<br>long y-axis is:                     | +                | (c) 80 N              |                    |          |            |            | 9.8 N     |           | -         |                        |       |
| (xiii)       | (a) One dimensional<br>Solar energy at no                                      | rmal incidence out                               | onal<br>side the | earth atn             | dimensio           | is ab    | out:       |            | our din   |           | nai       |                        |       |
| (viv)        | (a) 1.4kwm <sup>-2</sup><br>The angle subtand                                  | (b) lknvm <sup>-3</sup><br>ed at the centre by   | circum           | (c) 4.1&<br>ference o | f circle is        |          |            |            | 4kwm      |           |           |                        |       |
|              | (a) $\frac{\pi}{4}$ rad.   | (b) $\frac{\pi}{2}$ rad.                         | t hor            | (c) 2 = r             | ad.                |          |            | (d)        | 4 x rac   |           |           |                        | -     |
| (xvi)        | (a) Huygens<br>Moment of ine tia   | (b) Boyle  |                  | (c) Newt              | -                  |          |            |            | Pascal    |           |           |                        |       |
|              | (a) mr 2   | (b) $\frac{2}{5}mr^2$                            |                  | (c) 1/2 m             | - 2                |          |            | (d)        | 12 ***    | 2         |           |                        |       |
| (xvii)       | (a) Water  | od is nearly equal t<br>(b) Milk                 |                  | (c) hone              |                    |          |            | (d)        |           |           |           |                        |       |
| Answ         | wers by: Abdul Reh   | man (Lecturers in                                | Physic           | 5 a                   | T.T P/6            | Colle    | 7          | anpu       | 8         | d d       | 9         | J d                    |       |
| 10           | b 11 ·1  | 12 a 13  | а                | 14 C                  | 15                 | c        | 16         | a          | 17        | а         |           | 3:10 H                 |       |
| Total        | marks 83   |  | 4.               | SECTIO                | ctive Par          |          |            |            |           |           |           |                        |       |
| 0.2          | Write short answer   | s of any EIGHT que                               | estions.         |                       |                    |          |            |            |           |           |           |                        |       |
| (1)          | Why do we find it us   | eful to have two unit                            | ts for the       | e amount o            | of substan         | ice, the | e kilogra  | am an      | d the n   | noie?     |           |                        |       |
| (11)         | the period of simple   | pendulum is measu<br>itive phenomenon or         | ned by           | a stop wat            | which on           | Spe of   | ences      | 250        | able tie  | 20 5535   | dante pe  |                        |       |
| (111)        | Name several repet   | itive phenomenon of                              | scurring         | ar nature             | WEIICEI COG        | u ser    | re as ie   | a50114     | acres and | 10 3001   |           |                        |       |
| (EV)         | Show that the famou  | us *Einstein equation                            | n- E = m         | c'is dime             | nsionally          | CONSIS   | went.      |            |           |           |           |                        |       |
| (v)          | Can the magnitude  | of a vector have a no<br>a vector quantity to    | egative          | value?                | Evoluin            |          |            |            |           |           |           |                        |       |
| (~e)         |  |  |                  | quarioty:             |                    |          |            |            |           |           |           |                        |       |
| (viii)       | Prove that: $A \cdot B = .$  | $A_sB_s + A_sB_s + A_sB$                         | -                |                       |                    |          |            |            |           |           |           |                        |       |
| (viii)       | Can the velocity of a  | an object reverse the                            | direction        | on when a             | cceleration        | n is co  | nstant?    | If so,     | give a    | n exan    | ngile.    |                        |       |
| (ix)         | Differentiate between  | en elastic and inelast                           | ic collisi       | ons. (x) V            | What is the        | e diffe  | rence be   | etwee      | en unito  | omn and   | o variat  | ne vero                | City  |
| (×i)         | Define momentum a  | and write down its ur                            | ME.              |                       | Why fog o          | этории   | s appea    | ar 10 c    | e susp    | ACT NO CO | and don't |                        |       |
| Q.3          | An object has 1 Lot  | potential energy. E:                             | entain w         | hat does it           | mean?              |          |            | (11)       | - 300     | hat is t  | idal ene  | ergy?                  |       |
| (iii)        | A girl drops a cup for   | om a certain height,                             | which b          | reaks into            | pieces, W          | mat er   | nergy ch   |            |           |           |           |                        |       |
| (iv)         | Explain what is mea  | ant by centripetal for                           | ce and w         | why it must           | be furnist         | hed to   | an objec   | t if the   | object    | is to fo  | liow a ci | rcular P               | ath?  |
| Cw3          | When mud flies off t   | the tyre of a moving                             | bicycle.         | in what di            | rection do         | es it fi | 23         |            |           |           |           |                        |       |
| (wi)         | Define angular dispi   | lacement. (vii)                                  | Does             | frequency             | depend o           | n amp    | litude to  | er man     | monic     | oscillat  | ors r     | -                      |       |
| (wiii)       | What are forced osc  | hase angle? Does it<br>cillations? (x)           | Manat fo         | atures do             | ionaitudin         | al way   | res have   | e in co    | ammon     | writh t   | ansver    | se waw                 | 057   |
| (ix)<br>(xi) | Why does sound tra   | evel faster in solids to                         | han in o         | ases? (               | cii) Explai        | in the   | terms cr   | rest_t     | rough.    | node a    | and anti  | inode.                 |       |
| 9.4          | Write short answer   | rs of any SIX quest                              | ions.            |                       | -                  |          |            |            |           |           |           |                        |       |
| 00           | Define wavefronts.   | also give its types?                             |                  |                       |                    |          |            |            |           |           |           |                        |       |
| 0.00         | An oil film spreading  | g over a wet footpath                            | shows            | colours, E            | xplain hov         | w does   | s it haps  | en?        |           |           |           |                        |       |
| (-1)         | How would you dist   | inguish between un-                              | polarize         | d and plan            | ne-potanize        | ed ligh  | es?        | -3         |           |           |           |                        |       |
| (rw)         | What are the proble  | ems, having a high mex lens is used as a         | magranyii        | eg power i            | ASCULIO            | ELCOI V  | erescop    | -          |           |           |           |                        |       |
| (v)          | Derive the Charles'  | law on the basis of                              | kinetic ti       | neory of a            | ises?              |          |            |            |           |           |           |                        |       |
| (vii)        | What are the defect  | ts in first law of Ther                          | modyma           | mics and I            | now they o         | can be   | remove     | e in se    | econd     | law of    | Thermo    | dynami                 | cs?   |
| (viii)       | A system undergoe  | s from state P, P, ro                            | Para             | What will b           | e the cha          | inge in  | interna    | dene       | rgy?      |           |           |                        |       |
| (ix)         | is it possible to con-   | vert internal energy                             | into med         | chanical er           | ergy? Exp          | plain v  | with an e  | eocaimp    | pēe.      |           |           |                        |       |
|              |  |  |                  | ION-II                |                    |          |            |            |           |           |           |                        |       |
| 5.(a)        | <ul> <li>Attempt any three q</li> <li>Define scalar produ</li> </ul>           | et Explain its four c                            | haracter         | ristics.              |                    |          |            |            |           |           |           |                        |       |
| (b)          | A foot ball is thrown  | upward with an ang                               | gle of 34        | o" with nes           | spect to th        | e horio  | zontal. 1  | thr        | ow a 4    | Om par    | ss what   | must b                 | e th  |
|              | initial enough of tine I   | nair2  |                  |                       |                    |          |            |            |           |           |           |                        |       |
| 6. (a)       | How large a force is   | hary satellite. Derive<br>s recluired to acceler | ate an e         | electron (n           | $y = 9.1 \times 1$ | O-35 A   | g) from    | rest       | o a spe   | eed of    | 2.0×1     | 0" max-0               |       |
| -            | through a distance   | of 5.0 cm?<br>system, derive relation            | ons for E        | E and K               | E. Also sh         | ow the   | at total e | nero       | y remai   | ins cor   | stant.    |                        |       |
| 7. (a)       |  | re at which the veloc                            | city of so       | ound in air           | is two time        | es its   | velocity   | at 10      | PC.       |           |           |                        |       |
| 6. (a<br>(b  |  | Explain diffraction of<br>lescope having mag     |                  |                       |                    |          |            |            |           | art. Fin  | d the fo  | ocal len               | gth . |
| 9. (a)       | the lenses.  |  |                  |                       |                    |          |            |            |           |           |           |                        |       |
| (b)          | , Esumate the averag   | ge speed of ratiogen                             |                  |                       | 201 2112           |          |            |            |           |           | -         |                        |       |
|              |  |  |                  |                       |                    |          |            |            |           |           |           |                        |       |

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Physics 11

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**Daniela Niemeyer** 

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Microscopy in Structural Biology Krishnarao Appasani,2024-10-17 Cryo electron microscopy in combination with tomography has emerged as a new technology for visualizing molecular structures at a resolution beyond even 1 Using this technology has revealed the native molecular details of viruses membranes enzymes ribosomes and cells This comprehensive volume brings together authoritative overviews of these methods from structural and biological perspectives It is a must have for researchers and graduate students as well as those working in industry primarily in the areas of biophysics structural biology crystallography and genomics Key Features Focuses on the applications of cryo EM to structural biology Documents the importance of cryo EM ET approaches in studying the structural determinants of cellular organelle and membrane protein biochemistry Reviews the applications of high resolution structures of viruses Emphasizes structural insights of nuclear and gene machineries Includes a section focused entirely on the applications of cryo EM ET in drug discovery and therapeutic development Flat Space Cosmology Eugene Terry Tatum, U.V.S. Seshavatharam, 2021-06-15 This compilation based upon recent peer reviewed journal publications encapsulates how the Flat Space Cosmology model FSC has become the primary competitor to the inflationary standard model of cosmology New ideas concerning black holes dark energy and dark matter are presented and shown to correlate extremely well with astronomical observations Anyone who follows the fast changing science of cosmology has an interest in the latest developments and would like to know how it is that our universe appears to follow equations one would ordinarily expect for a time reversed black hole may find this book to be fascinating Cosmology is the study of how the universe has changed over the great span of time roughly 14 billion years Later centuries will look back upon the period from 1990 2030 as a Golden Age of theoretical and observational cosmology It is highly likely that we are on the verge of a deeper understanding of the most mysterious energy dark energy and matter dark matter comprising the majority of energy and matter in the universe Some of the material presented in this book is on the cutting edge of dark energy and dark matter theoretical work This book summarizes for the first time the groundbreaking publications of two cosmologists one from the United States and the other from India from 2015 thru 2020 During this highly productive period the authors stealthily published their papers in six different peer reviewed scientific journals so that the model could be quietly explored in all aspects before bringing it all together in a single book This is that book Cambridge Checkpoint Lower Secondary Science Revision Guide for the Secondary 1 Test 2nd edition Rosemary Feasey, Andrea Mapplebeck, David Bailey, 2023-04-06 Achieve maximum potential using step by step guidance that helps to practise skills learned and improve exam technique Build confidence with practical study tips and effective revision strategies Reinforce understanding with clear explanations of every topic covered in the Cambridge Lower Secondary Checkpoint curriculum frameworks Strengthen and test knowledge with a range of questions and worked examples Test questions worked solutions and answers are available free online at www hoddereducation co uk cambridgeextras This resource has not been through the Cambridge International endorsement process Cambridge International AS & A Level Physics Student's Book 3rd

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#### **Table of Contents Past Papers Physics Fsc 1**

- 1. Understanding the eBook Past Papers Physics Fsc 1
  - The Rise of Digital Reading Past Papers Physics Fsc 1
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Past Papers Physics Fsc 1
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Past Papers Physics Fsc 1
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Past Papers Physics Fsc 1
  - Personalized Recommendations
  - Past Papers Physics Fsc 1 User Reviews and Ratings
  - Past Papers Physics Fsc 1 and Bestseller Lists
- 5. Accessing Past Papers Physics Fsc 1 Free and Paid eBooks
  - Past Papers Physics Fsc 1 Public Domain eBooks
  - Past Papers Physics Fsc 1 eBook Subscription Services
  - Past Papers Physics Fsc 1 Budget-Friendly Options

- 6. Navigating Past Papers Physics Fsc 1 eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - o Past Papers Physics Fsc 1 Compatibility with Devices
  - Past Papers Physics Fsc 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Past Papers Physics Fsc 1
  - Highlighting and Note-Taking Past Papers Physics Fsc 1
  - Interactive Elements Past Papers Physics Fsc 1
- 8. Staying Engaged with Past Papers Physics Fsc 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Past Papers Physics Fsc 1
- 9. Balancing eBooks and Physical Books Past Papers Physics Fsc 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Past Papers Physics Fsc 1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Past Papers Physics Fsc 1
  - Setting Reading Goals Past Papers Physics Fsc 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Past Papers Physics Fsc 1
  - Fact-Checking eBook Content of Past Papers Physics Fsc 1
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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