



0071865

K19U 2270

Reg. No. : .....

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V Semester B.Sc. Degree (CBCSS- Reg./Sup./Imp.) Examination,  
November-2019

(2014 Admn. Onwards)

Core Course in Physics

5B 10 PHY: ATOMIC, NUCLEAR &amp; PARTICLE PHYSICS

Time : 3 Hours

Max. Marks : 40

*Write answers in English only.***SECTION - A**

Answer All - Very short answer type - each question carries 1 mark.

(4×1=4)

1. What is the SI unit of radioactivity?
2. Which element is used to date the objects of biological origin?
3. ----- is the antiparticle of the electron.
4. When the spin of an element is  $\frac{1}{2}$  then we obtain ----- state.

**SECTION - B**Answer any **SEVEN** - short answer type - Each question carries **TWO** marks. (7×2=14)

5. Write a note on spin-orbit coupling.
6. Write a note on atomic structures.
7. Explain the eightfold way of classification of hadrons.
8. What is Franck-Hertz experiment?
9. How emission and absorption spectral lines originate.

P.T.O.

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**Patrick Vollmar**



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## **Table of Contents Periyar University B Sc Phy Question Papers Nuclear Phy**

1. Understanding the eBook Periyar University B Sc Phy Question Papers Nuclear Phy
  - The Rise of Digital Reading Periyar University B Sc Phy Question Papers Nuclear Phy
  - Advantages of eBooks Over Traditional Books
2. Identifying Periyar University B Sc Phy Question Papers Nuclear Phy
  - 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 Periyar University B Sc Phy Question Papers Nuclear Phy
  - User-Friendly Interface
4. Exploring eBook Recommendations from Periyar University B Sc Phy Question Papers Nuclear Phy
  - Personalized Recommendations
  - Periyar University B Sc Phy Question Papers Nuclear Phy User Reviews and Ratings
  - Periyar University B Sc Phy Question Papers Nuclear Phy and Bestseller Lists
5. Accessing Periyar University B Sc Phy Question Papers Nuclear Phy Free and Paid eBooks
  - Periyar University B Sc Phy Question Papers Nuclear Phy Public Domain eBooks
  - Periyar University B Sc Phy Question Papers Nuclear Phy eBook Subscription Services
  - Periyar University B Sc Phy Question Papers Nuclear Phy Budget-Friendly Options
6. Navigating Periyar University B Sc Phy Question Papers Nuclear Phy eBook Formats
  - ePub, PDF, MOBI, and More
  - Periyar University B Sc Phy Question Papers Nuclear Phy Compatibility with Devices
  - Periyar University B Sc Phy Question Papers Nuclear Phy Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Periyar University B Sc Phy Question Papers Nuclear Phy
  - Highlighting and Note-Taking Periyar University B Sc Phy Question Papers Nuclear Phy
  - Interactive Elements Periyar University B Sc Phy Question Papers Nuclear Phy
8. Staying Engaged with Periyar University B Sc Phy Question Papers Nuclear Phy

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Periyar University B Sc Phy Question Papers Nuclear Phy
9. Balancing eBooks and Physical Books Periyar University B Sc Phy Question Papers Nuclear Phy
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Periyar University B Sc Phy Question Papers Nuclear Phy
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Periyar University B Sc Phy Question Papers Nuclear Phy
- Setting Reading Goals Periyar University B Sc Phy Question Papers Nuclear Phy
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Periyar University B Sc Phy Question Papers Nuclear Phy
- Fact-Checking eBook Content of Periyar University B Sc Phy Question Papers Nuclear Phy
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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