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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.

# Periyar University B Sc Phy Question Papers Nuclear Phy

**Anthony S. Fauci**



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**Physics ( Paper 1 ) Solid State & Nuclear Physics** Dr. Basant Prakash Dwivedi, Dr. Belal Usmani, 2024-04-01 Buy Latest Physics Paper 1 Solid State Nuclear Physics e Book for B Sc 6th Semester UP State Universities By Thakur publication

**Papers & Discussions** Max Born, Hans Albrecht Bethe, 1935 *Papers & Discussions* International Union of Pure and Applied Physics, Physical Society, 1935 *Nuclear Physics* Springer, 2014-01-15 **A Paper Nuclear Physics Notes** Donald H. Perkins, 1976 **Fundamentals in IN Nuclear Physics** Khairi Abdullah, 2017-05-11 Contemporary Nuclear Physics C. R. Praharaj, 2003-09 Contributed papers presented at the National Seminar on Contemporary Nuclear Physics held at the Institute of Physics Bhubaneswar **Nuclear And Particle Physics** S L Kakani, 2008-01-01 This book is aimed at students of B Sc Hons M Sc and M Phil in Physics It examines the major developments in nuclear and particle physics that have taken place in the past few years Written according to the UGC curriculum the book presents the subject comprehensively Besides it also reflects new trends in the study of nuclear and particle physics The book provides an up to date view of the field in a compact form The study of nuclei is placed in its proper relation with the subject of subatomic particles Relationships with the underlying quark substructure of nucleons and the fundamental interactions between the elementary building blocks of nuclei are emphasized The text offers a concise coverage of nuclear and particle physics in a lucid and uncomplicated manner Each chapter contains a wide range of worked out problems At the end of each chapter a good number of review questions exercises short question answers and objective questions are provided so that the book may also be useful for UGC CSIR NET SLET and other competitive examinations **Progress Report on Nuclear Physics Research** C. E. Falk, E. Baldwin, 1949 **Atomic and Nuclear Physics** K. Gopala Krishnan, 1982 **Advances in Nuclear Physics**, 1979 **Nuclear Physics** P. R. Manjunath, 2007-01-01 **Progress in nuclear physics**, 1977 **B Paper Nuclear Physics Lectures** Sir Denys Haigh Wilkinson, 1977 **NUCLEAR AND PARTICLE PHYSICS. SHUBHRA. KAKANI**, 2013 The Nuclear Physics Elective Alasdair John Hey, 1994 Nuclear Physics, 1963 **Some Problems in Atomic Or Nuclear Physics** R. J. Philpott, 1963 **Problems of nuclear physics** Rudolf Ernst Peierls, 1948 *Some Problems in Atomic and Nuclear Physics* J. Le Tourneux, 1962

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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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