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Time: 3 Hours

समय — तीन घंटा

H4F

D(H-II) PH(4)

Full Marks: 75

अधिकतम अंक — 75

2021

INSTRUCTION

Candidates are required to give their answer in their own words as far as practicable. Answer any six questions, selecting at least one from A, two from Group B and three questions from Group- C.

Group - A

1. Obtain the boundary conditions for electric field at the surface of separation between two dielectrics. Use these relations to analyse the refraction of electric lines of forces.
2. Define hysteresis loop. Derive expression for energy loss per cycle of magnetization.

Group - B

3. Describe growth and decay of current in CR circuit.
4. Give construction and action of Owen's bridge.
5. Explain series and parallel resonance circuits. Give expression for power in AC circuit.
6. Explain the principle of production of a rotating magnetic field by a single phase A.C. supply.

Group - C

7. Derive mass formula on the basis of liquid drop model.
8. Give a brief outline of Fermi's theory of beta decay.
9. Give construction and action of synchrocyclotron.
10. Describe the cascade theory of cosmic rays and its main conclusion.
11. What is a quark? Explain quark model of particle.
12. Write notes on any two :
 - (a) Neutrino and anti- neutrino.
 - (b) Difference between nuclear fission and nuclear fusion.
 - (c) Strangeness
 - (d) Chain reaction.

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Marco Cascella



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Table of Contents Jp University Chapra Program Physics 2013

1. Understanding the eBook Jp University Chapra Program Physics 2013
 - The Rise of Digital Reading Jp University Chapra Program Physics 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Jp University Chapra Program Physics 2013
 - 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 Jp University Chapra Program Physics 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jp University Chapra Program Physics 2013
 - Personalized Recommendations
 - Jp University Chapra Program Physics 2013 User Reviews and Ratings

- Jp University Chapra Program Physics 2013 and Bestseller Lists
- 5. Accessing Jp University Chapra Program Physics 2013 Free and Paid eBooks
 - Jp University Chapra Program Physics 2013 Public Domain eBooks
 - Jp University Chapra Program Physics 2013 eBook Subscription Services
 - Jp University Chapra Program Physics 2013 Budget-Friendly Options
- 6. Navigating Jp University Chapra Program Physics 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Jp University Chapra Program Physics 2013 Compatibility with Devices
 - Jp University Chapra Program Physics 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jp University Chapra Program Physics 2013
 - Highlighting and Note-Taking Jp University Chapra Program Physics 2013
 - Interactive Elements Jp University Chapra Program Physics 2013
- 8. Staying Engaged with Jp University Chapra Program Physics 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jp University Chapra Program Physics 2013
- 9. Balancing eBooks and Physical Books Jp University Chapra Program Physics 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jp University Chapra Program Physics 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Jp University Chapra Program Physics 2013
 - Setting Reading Goals Jp University Chapra Program Physics 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jp University Chapra Program Physics 2013
 - Fact-Checking eBook Content of Jp University Chapra Program Physics 2013
 - 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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