

Con. 217-15.

FY.B.Sc. (Computer Science)

Physics - (Paper - II)

APRIL  
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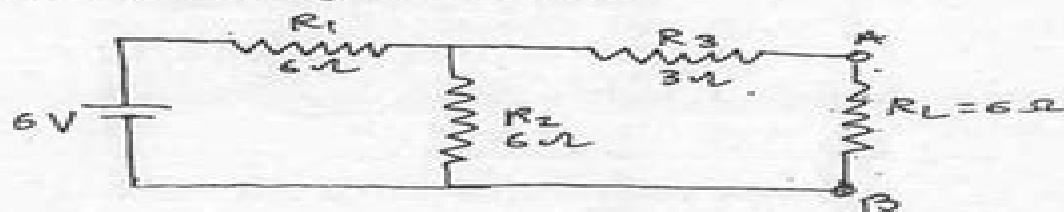
CP-2432

( 2 Hours )

[ Total Marks : 60

- N.B. :** (1) All questions are compulsory and carry equal marks.  
 (2) Figures to the right indicate full marks.  
 (3) Use of scientific non-programmable calculator is allowed.

1. (a) Attempt any one of the following :— 7
  - (i) What is time constant of an L-R series circuit. Derive an expression for it by considering decay of current in an L-R circuit.
  - (ii) Show that in an a.c. circuit with pure resistance, the current and voltage are always in phase.
- (b) In a series LCR circuit,  $L = 400 \mu\text{H}$ ,  $R = 10\Omega$  and  $C = 25 \mu\text{F}$ . Find the resonant frequency and Q factor at resonance. 3
2. (a) Attempt any one of the following :— 7
  - (i) Explain the diffraction of X-rays and derive the Bragg's law for the same.
  - (ii) With the help of an appropriate diagram, explain origin of spectral lines in H-atom.
- (b) Find the frequency of revolution of an electron in H-atom in  $n = 2$  state. How many rotations will it make in  $10^{-8}$  secs ? 3
3. (a) Attempt any one of the following :— 7
  - (i) Explain the input and output characteristics of CE configuration of transistor. Write your inference from these characteristics.
  - (ii) Explain Half adder and full adder with Logic circuit diagram using Logic Gates. Write the truth tables.
- (b) State and prove De'Morgan's first theorem. 3
4. (a) Attempt any one of the following :— 7
  - (i) Obtain the condition of balance for Maxwell's induction bridge. What are its limitations ?
  - (ii) State and explain reciprocity theorem.
- (b) Determine the Thevenin equivalent of the circuit given below. Hence find load voltage and load-current. 3



(08)

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### **Table of Contents Fybsc Anser Pepar Physics2014**

1. Understanding the eBook Fybsc Anser Pepar Physics2014
  - The Rise of Digital Reading Fybsc Anser Pepar Physics2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Fybsc Anser Pepar Physics2014
  - 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 Fybsc Anser Pepar Physics2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fybsc Anser Pepar Physics2014
  - Personalized Recommendations
  - Fybsc Anser Pepar Physics2014 User Reviews and Ratings
  - Fybsc Anser Pepar Physics2014 and Bestseller Lists

5. Accessing Fybsc Anser Pepar Physics2014 Free and Paid eBooks
  - Fybsc Anser Pepar Physics2014 Public Domain eBooks
  - Fybsc Anser Pepar Physics2014 eBook Subscription Services
  - Fybsc Anser Pepar Physics2014 Budget-Friendly Options
6. Navigating Fybsc Anser Pepar Physics2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Fybsc Anser Pepar Physics2014 Compatibility with Devices
  - Fybsc Anser Pepar Physics2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fybsc Anser Pepar Physics2014
  - Highlighting and Note-Taking Fybsc Anser Pepar Physics2014
  - Interactive Elements Fybsc Anser Pepar Physics2014
8. Staying Engaged with Fybsc Anser Pepar Physics2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fybsc Anser Pepar Physics2014
9. Balancing eBooks and Physical Books Fybsc Anser Pepar Physics2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fybsc Anser Pepar Physics2014
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Fybsc Anser Pepar Physics2014
  - Setting Reading Goals Fybsc Anser Pepar Physics2014
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fybsc Anser Pepar Physics2014
  - Fact-Checking eBook Content of Fybsc Anser Pepar Physics2014
  - 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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