COMPUTER APPLICATIONS

(Theory)

(Two hours)

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

This Paper is divided into two Sections.

Attempt all questions from Section A and any four questions from Section B.

The intended marks for questions or parts of questions are given in brackets [].

SECTION A (40 Marks)

Attempt all questions

Question 1.

- (a) Mention any two rules for naming identifiers. [2]
- (b) How do we invoke a constructor? Explain with an example. [2]
- (c) Write a Java statement to create an object named 'jis' of a class 'Computer' that invokes a parameterized constructor that accepts two integer type values. [2]
- (d) How is the concept of Data Abstraction implemented in Java? [2]
- (e) Write the expression for the <u>absolute</u> value of $\sqrt{2a^2 + 3b^4}$. [2]

Question 2.

- (a) Assign the <u>constant</u> value of pi (i.e. 3.142) to a variable mentioning its appropriate data type.
- (b) Name the Java keyword that:
 - (i) is used to finish the execution of a program
 - (ii) is used to implement the concept of inheritance.
- (c) If Int A[] = { 9.8,0.4,5,6.6,8.1,5}; What are the values of 'm' and 'n'?.
 m = Math.max(Math.pow(A[1],A[2]), Math.sqrt(A[3]));
- n = Math.pow(Math.min(A[1],A[7]), A[3]); [2]
 (d) What is the difference between a String object and StringBuffer object? [2]
- (e) Write a Java statement to check whether two string object 's1' and 's2' are equal or not, using compareTo() function.[2]

[2]

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Table of Contents Icse Sample Papers 2013 Computer Application

- 1. Understanding the eBook Icse Sample Papers 2013 Computer Application
 - The Rise of Digital Reading Icse Sample Papers 2013 Computer Application
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Icse Sample Papers 2013 Computer Application
 - 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 Icse Sample Papers 2013 Computer Application
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Icse Sample Papers 2013 Computer Application
 - Personalized Recommendations
 - $\circ\,$ Icse Sample Papers 2013 Computer Application User Reviews and Ratings
 - Icse Sample Papers 2013 Computer Application and Bestseller Lists
- 5. Accessing Icse Sample Papers 2013 Computer Application Free and Paid eBooks
 - Icse Sample Papers 2013 Computer Application Public Domain eBooks
 - Icse Sample Papers 2013 Computer Application eBook Subscription Services
 - Icse Sample Papers 2013 Computer Application Budget-Friendly Options

- 6. Navigating Icse Sample Papers 2013 Computer Application eBook Formats
 - o ePub, PDF, MOBI, and More
 - Icse Sample Papers 2013 Computer Application Compatibility with Devices
 - Icse Sample Papers 2013 Computer Application Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Icse Sample Papers 2013 Computer Application
 - Highlighting and Note-Taking Icse Sample Papers 2013 Computer Application
 - Interactive Elements Icse Sample Papers 2013 Computer Application
- 8. Staying Engaged with Icse Sample Papers 2013 Computer Application
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Icse Sample Papers 2013 Computer Application
- 9. Balancing eBooks and Physical Books Icse Sample Papers 2013 Computer Application
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Icse Sample Papers 2013 Computer Application
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Icse Sample Papers 2013 Computer Application
 - Setting Reading Goals Icse Sample Papers 2013 Computer Application
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Icse Sample Papers 2013 Computer Application
 - Fact-Checking eBook Content of Icse Sample Papers 2013 Computer Application
 - 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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