

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 'Its' 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 absolute value of $\sqrt{2a^2 + 3b^2}$. [2]

Question 2.

- (a) Assign the constant value of pi (i.e. 3.142) to a variable mentioning its appropriate data type. [2]
- (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. [2]
- (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]

This Paper consists of 4 printed pages.

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G. De Giacomo,A. Catala,B. Dilkina



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Computer and Cyber Security Brij B. Gupta, 2018-11-19 This is a monumental reference for the theory and practice of computer security Comprehensive in scope this text covers applied and practical elements theory and the reasons for the design of applications and security techniques It covers both the management and the engineering issues of computer security It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely used systems This book is acclaimed for its scope clear and lucid writing and its combination of formal and theoretical aspects with real systems technologies techniques and policies *Application Development and Design: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2017-08-11 Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life These applications can be utilized across different technological platforms Application Development and Design Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of pertinent topics such as software design mobile applications and web applications this multi volume book is ideally designed for researchers academics engineers professionals students and practitioners interested in emerging technology applications

Advances in Computers, 2014-03-01 Since its first volume in 1960 Advances in Computers has presented detailed coverage of innovations in computer hardware software theory design and applications It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field In depth surveys and tutorials on new computer technology Well known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

Web Services, Formal Methods, and Behavioral Types Thomas Hildebrandt, António Ravara, Jan Martijn van der Werf, Matthias Weidlich, 2016-04-19 This volume contains the refereed joint proceedings of two initiatives that have been devoted to the formal foundations of complex systems the workshops WS FM

FASOCC 2014 and WS FM BEAT 2015 The 11th International Workshop on Web Services and Formal Methods Formal Aspects of Services Oriented and Cloud Computing WS FM 2014 took place in Eindhoven The Netherlands in September 2014 The 12th International Workshop on Web Services Formal Methods and Behavioral Types WS FM 2015 took place in Madrid Spain in September 2015 The total of 8 papers presented in this volume was carefully reviewed and selected from 18 submissions They were organized in topical sections named expressiveness of behavioral models service oriented systems and behavioral types

Computational Science and Its Applications - ICCSA 2017 Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Giuseppe Borruso, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Elena Stankova, Alfredo Cuzzocrea, 2017-07-14 The six volume set LNCS 10404 10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications ICCSA 2017 held in Trieste Italy in July 2017 The 313 full papers and 12 short papers included in the 6 volume proceedings set were carefully reviewed and selected from 1052 submissions Apart from the general tracks ICCSA 2017 included 43 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality Furthermore this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering The program also featured 3 keynote speeches and 4 tutorials

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international computer science summer schools and this book with its detailed overview of current research results with special emphasis on the solving of software systems security problems will be of interest to all those whose work involves systems security

ECAI 2020 G. De Giacomo,A. Catala,B. Dilkina,2020-09-11 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology

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Information Technology for Management: New Ideas and Real Solutions Ewa Ziemba,2017-01-27 This book constitutes revised selected papers from the 14th Conference on Advanced Information Technologies for Management AITM 2016 and the 11th Conference on Information Systems Management ISM 2016 held as part of the Federated Conference on Computer Science and Information Systems FedCSIS which took place in Gdansk Poland in September 2016 The 13 papers presented in this volume were carefully reviewed and selected from 51 submissions They were organized in topical sections named information technology and systems for knowledge management information technology and systems for business transformation and implementation and evaluation of information systems

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