

**Q.P. Code : 15321**

**Third Semester B.C.A. Degree Examination,  
November/December 2019**

*(CBCS Scheme – Freshers & Repeaters)*

**Computer Science**

**Paper BCA 303 T – OBJECT ORIENTED PROGRAMMING USING C++**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to Candidates : Answer all Sections.*

**SECTION – A**

Answer any **TEN** questions. Each question carries **2** marks : **(10 × 2 = 20)**

1. Write any two differences between C and C++.
2. Define Token, Variable.
3. What is access specifiers? Mention its types.
4. Write the difference between calloc( ) and malloc( ).
5. What are actual and formal parameters?
6. Define class and object.
7. Define Destructor.
8. Define operator overloading.
9. What is Inheritance in C++?
10. Define this operator.
11. What is an Abstract Class?
12. What are input and output streams?

# Object Oriented Programming In Bca Question Papers

**George A. Duckett**



## **Object Oriented Programming In Bca Question Papers:**

**Object-Oriented C++ Programming** Hirday Narayan Yadav,2008      **Object oriented programming with C++** Mahesh Bhavne, Sunil Patekar,2012 This fully revised and indispensable edition of Object Oriented Programming with C++ provides a sound appreciation of the fundamentals and syntax of the language as well as of various concepts and their applicability in real life problems Emphasis has been laid on the reusability of code in object oriented programming and how the concepts of class objects inheritance polymorphism friend functions and operator overloading are all geared to make the development and maintenance of applications easy convenient and economical      **MCS-024: Object Oriented Technologies and Java Programming** Dr. DK Sukhani,2018-11-19 This book is useful for IGNOU BCA MCA students A perusal of past questions papers gives an idea of the type of questions asked the paper pattern and so on it is for this benefit we provide these IGNOU MCS 024 Introduction to Database Management Systems Notes Students are advised to refer these solutions in conjunction with their reference books It will help you to improve your exam preparations It comprises of details about Introduction to object oriented software engineering Advanced Structured Modeling Object Oriented Concepts and Project Management Object oriented design and testing Advanced topic in S W engineering Multiple Choice Questions

**Advanced Java** Manish Soni,2024-11-13 Welcome to Advanced Java Java has evolved significantly since its inception becoming one of the most popular programming languages for a good reason This book aims to take you beyond the basics of Java introducing advanced concepts techniques and tools to help you become a proficient Java developer Whether you re new to Java or an experienced developer looking to enhance your skills this book will be your guide We will cover a diverse range of topics from advanced object oriented programming and concurrency to database connectivity web development and modern Java frameworks Our objective is to do more than just teach you how to write Java code we want to help you become a Java craftsman or craftswoman capable of creating complex efficient and elegant software solutions You ll gain the knowledge and practical experience needed to confidently address real world challenges The journey begins with advanced object oriented programming principles and design patterns where you ll learn to design your software for scalability maintainability and flexibility using industry standard practices Concurrency is a critical aspect of modern software development and this book will delve into multithreading synchronization and concurrent data structures providing you with the tools to write high performance parallelized applications Mastering database connectivity is essential for any Java developer You ll learn to work with databases including advanced SQL queries JDBC and connection pooling enabling you to build robust data driven applications Web development is another fundamental component of modern Java programming You ll explore technologies like Servlets JSP and Java Server Faces JSF and we ll introduce the Spring Framework a comprehensive toolset for developing enterprise level applications Throughout the book we ll emphasize best practices coding standards and design guidelines to help you write not only functional but also maintainable and elegant code You ll

learn how to leverage tools and libraries to enhance your productivity and streamline your development process As you embark on this journey into Advanced Java remember that mastering any craft requires time and practice Java is a versatile and powerful tool and with dedication and persistence you can unlock its full potential We encourage you to engage with the hands on exercises and embrace the challenges that advanced Java programming presents By the end of this book we hope you ll have expanded not only your technical skills but also your mindset as a software developer **IGNOU BCA**

### **Object-Oriented Technologies and Java Programming Previous Year Solved Papers MCS 024** Manish

Soni,2024-11-13 Over the past decade academic progress and technological innovations have significantly reshaped the educational landscape with Java programming emerging as a cornerstone in computer science and software development As programming continues to play a vital role in shaping modern technologies mastering Java has become essential for students aiming to excel in the IT industry In this transformative journey the Indira Gandhi National Open University IGNOU has consistently empowered learners by offering accessible and high quality education In response to the growing demand for reliable academic support we are pleased to present IGNOU BCA Object Oriented Technologies and Java Programming Previous Year Solved Papers MCS 024 a carefully curated compilation designed to support students in strengthening their understanding of Java and object oriented programming concepts This book brings together solved question papers from the past ten years offering readers not only a window into real exam patterns and expectations but also the opportunity to enhance their problem solving techniques and application based understanding Developed through the collaborative efforts of experienced educators and industry professionals the solutions reflect a balance of theoretical knowledge and practical insight Whether used for exam preparation self assessment or concept revision this volume aims to be a dependable academic companion We believe that by working through these solved papers learners will gain the confidence and clarity needed to approach Java programming with competence and enthusiasm We extend our sincere thanks to the educators students and reviewers who contributed to the making of this book May it serve as a valuable guide for all those embarking on their journey through the world of object oriented technologies and Java programming **Core Java** Manish

Soni,2024-11-13 Core Java is the backbone of modern software development and mastering its core concepts is essential for any aspiring programmer whether you re just starting your journey or seeking to deepen your knowledge This book Core Java is designed to be your comprehensive guide to the fundamental principles of Java programming In the ever evolving landscape of technology Java remains a constant Its versatility and platform independence have made it the language of choice for a wide range of applications from mobile apps to web services and enterprise systems Whether you re a student a professional developer or an enthusiast eager to learn this book is crafted to meet your needs Our journey through the world of Java begins with the basics We ll guide you through setting up your development environment writing your first lines of code and understanding the syntax that underpins the language From there we ll delve into the rich world of data types

control structures and object oriented programming providing a solid foundation upon which to build your Java expertise As we progress you ll explore advanced topics such as multithreading I O and exception handling gaining the skills necessary to develop robust and efficient Java applications We ll demystify object oriented design principles and guide you in applying them to your projects Java isn t just about syntax it s about building real world applications You ll learn how to work with databases networked systems and graphical user interfaces giving you the tools to create software that can truly make an impact Throughout this book you ll find practical examples and hands on exercises to reinforce your understanding and hone your programming skills Java is a language of practice and our aim is to equip you with the knowledge and experience needed to tackle real world challenges confidently

**COMPUTER CONCEPTS AND C PROGRAMMING** ANAMI, BASAVARAJ S.,ANGADI, SHANMUKHAPPA A.,MANVI, SUNILKUMAR S.,2010-05 This second edition of the book allows students to undertake a complete study of C including the fundamental concepts programming problem solving and the data structures The book is also structured to provide a general introduction to computer concepts before undertaking a detailed treatment of the C programming language To that end the book is eminently suitable for the first year engineering students of all branches as per the prescribed syllabus of several universities for a course on Computer Concepts and C Programming Besides the book fully caters to the needs of the students pursuing undergraduate and postgraduate courses in general streams such as computer science information science computer applications BCA and MCA and information technology Written in an engaging style the book builds the students C programming skills by using a wide variety of easy to understand examples illustrating along the way the development of programming constructs and logic for writing high quality programs The book also develops the concepts and theory of data structures in C such as files pointers structures and unions using innumerable examples The worked examples in the form of programs and program segments are illustrated with outputs of sample runs A chapter on Computer Graphics is provided to give the students a feel of how C language is used for display of graphics and animation An exclusive chapter on advanced concepts such as enumerated data types bitwise operators and storage classes is included in sufficient detail to help students progress to writing practical and real world applications Besides a new chapter presents a C quiz comprising of 100 objective type questions that help readers to test their C skills

*Readings in Object-oriented Database Systems* Stanley Benjamin Zdonik,David Maier,1990 Fundamentals of objet oriented databases Object oriented fundamentals Semantic data models and persistent languages Object oriented database systems Implementation Transaction processing Special features Relational extensions and extensible databases Interfaces Applications [TIMS/ORSA Bulletin](#) Institute of Management Sciences,1993 [Forthcoming Books](#) Rose Army,1990

**British Humanities Index** ,2009 **INTRO TO OOP AND C++ - ISRD** ISRD,2006-10 This book is designed for the course on Object Oriented Programming and C offered to students taking the DOEACC s A level certificate examination The book will also be useful to the Diploma students of Computer Science who take a paper on C Key features Comprehensive

coverage of Object Oriented Programming Programming Methodology discussed thoroughly Detailed discussion on Virtual Functions and Templates The last 5 Question papers of DOEACC A level examinations included at the end of the book as an appendix Programming Methodology discussed thoroughly Detailed discussion on Virtual Functions and Templates DOEACC A level examination question papers included as an appendix *Hands on Object Oriented Programming 1000 MCQ (eBook)* Harry Chaudhary.,2018-08-15 Our 1000 Object Oriented Programming Questions and Answers focuses on all areas of Object Oriented Programming subject covering 100 topics in Object Oriented Programming These topics are chosen from a collection of most authoritative and best reference books on Object Oriented Programming One should spend 1 hour daily for 15 days to learn and assimilate Object Oriented Programming comprehensively This way of systematic learning will prepare anyone easily towards Object Oriented Programming interviews online tests Examinations and Certifications Highlights 1000 Basic and Hard Core High level Multiple Choice Questions Answers in Object Oriented Programming with Explanations Prepare anyone easily towards Object Oriented Programming interviews online tests Government Examinations and certifications Every MCQ set focuses on a specific topic in Object Oriented Programming Specially designed for IBPS IT SBI IT RRB IT GATE CSE UGC NET CS PROGRAMMER and other IT Computer Science related Exams Who should Practice these Operating Systems Questions Anyone wishing to sharpen their skills on Object Oriented Programming Anyone preparing for aptitude test in Object Oriented Programming Anyone preparing for interviews campus off campus interviews walk in interview and company interviews Anyone preparing for entrance examinations and other competitive examinations All Experienced Freshers and Students OOPs Basic Concepts 7 Classes 11 Objects 15 OOPs Features 19 Polymorphism 23 Encapsulation 29 Abstraction 34 Constructors 38 Types of Constructors 43 Copy Constructor 48 Overloading Constructors 52 Execution of Constructor or Destructor 57 Destructors 61 Access Specifiers 66 Private Access Specifiers 70 Protected Access Specifiers 76 Public Access Specifier 82 Data Members 87 Member Functions 91 Local Class 95 Nested Class 99 Passing and Returning Object with Functions 104 Object Reference 109 Memory Allocation of Object 114 Object Use 124 Abstract Class 128 Template Class 132 Base Class 137 Derived Class 141 Class Use 145 Inheritance 149 Types of Inheritance 153 Single Level Inheritance 158 Multilevel Inheritance 164 Multiple Inheritance 169 Hierarchical Inheritance 178 Virtual Functions 182 Abstract Function 186 Types of Member Functions 190 Member Operator Function 194 Overloading Member Functions 199 Overriding Member Functions 204 Constant Member Functions 209 Private Member Functions 213 Public Member Functions 217 Exception Handling 222 Catching Class Types 227 Static Data Members 231 Static Member Functions 236 Passing Object to Functions 240 Returning Objects 245 Assigning Objects 249 Pointer to Objects 254 This Pointer 259 Default Arguments 263 Constructors Overloading 267 Upcasting 271 Downcasting 276 New Operator 280 Delete Operator 284 Automatic Variable 288 Extern Variable 292 Inbuilt Classes 297 IO Class 301 String Class 305 Object Oriented Programming George A. Duckett,2016-05-30 If you have a question about Object Oriented Programming this is the book with

the answers Object Oriented Programming Questions and Answers takes some of the best questions and answers asked on the programmers stackexchange com website You can use this book to look up commonly asked questions browse questions on a particular topic compare answers to common topics check out the original source and much more This book has been designed to be very easy to use with many internal references set up that makes browsing in many different ways possible Topics covered include Design Java Design Patterns C Object Oriented Design C Programming Languages Functional Programming Object Oriented Inheritance PHP Programming Practices SOLID Unit Testing Interfaces Language Agnostic Architecture Terminology MVC Encapsulation and many more

OBJECT-ORIENTED PROGRAMMING WITH JAVA, SECOND EDITION SOMASHEKARA, M. T., GURU, D. S., MANJUNATHA, K. S., 2024-12-23 This self explanatory and highly informative text presents an exhaustive coverage of the concepts of Object Oriented Programming with JAVA A number of good illustrative examples are provided for each concept supported by well crafted programs thus making it useful for even those having no prerequisite knowledge of programming Beginning from the preliminaries of the language and the basic principles of OOP this textbook moves gradually towards advanced concepts like exception handling multithreaded programming GUI support through AWT controls string handling file handling basic utility classes and collection framework in Java In addition the well planned material in the book acts as a precursor to move towards high end programming in Java which includes the discussion of Servlets Java Server Pages JDBC Swings etc

**KEY FEATURES** Extensive coverage of syllabi of various Indian universities Comprehensive coverage of the OOP concepts and Core Java Explanation of the concepts using simple and expressive language Complete explanation of the working of each program with more emphasis on the core segment of the program Point wise summary at the end of each chapter **NEW TO THE SECOND EDITION** New chapter on Collections Framework Over 250 illustrative programs more than 135 programming exercises around 235 review questions and about 200 true false questions 150 MCQs with answers **TARGET AUDIENCE** B Tech M Tech Computer Science Engineering and Information Technology BCA MCA B Sc M Sc Computer Science

*Objects and Systems* Bernard P. Zeigler, 2012-12-06 The author s aim in this textbook is to provide students with a clear understanding of the relationship between the principles of object oriented programming and software engineering Professor Zeigler takes an approach based on state representation to formal specification Consequently this book is unique through its emphasis on formulating primitives from which all other functionality can be built integral use of a semi formal behaviour specification language based on state transition concepts differentiation between behaviour and implementation a reusable heterogeneous container class library ability to show the elegance and power of ensemble methods with non trivial examples As a result students studying software engineering will find this a distinctive and valuable approach to programming and systems engineering

*Applications of Object-oriented Programming* Institution of Electrical Engineers. Computing & Control Division. Professional Group C14 (Information Technology), 1989

*Object Oriented Analysis, Design and Testing* Eric J. Braude, 1998

These papers on object oriented analysis and design cover overviews of the object oriented paradigm methodologies requirements analysis for applications OO design and design patterns and testing and maintenance of OO applications

Object-Oriented Programming in Oberon-2 Hanspeter Mössenböck, 1995-09-07 Without a doubt the idea of object oriented programming has brought some motion into the field of programming methodology and enlarged the set of programming languages Object oriented programming is nothing new it first arose in the sixties The motivation came from the simulation of discrete event systems The concept first manifested itself in the language Simula 67 It took nearly two decades for the method to gain impetus and today object oriented programming is an important concept and a powerful technique Meanwhile we can even speak of an over reaction for the concept has become a buzzword But buzzwords always appear where there is the hope of exploiting ill informed clients because they see the new approach as the solution to all their problems Thus object oriented programming is often hailed as a panacea And so the question is justified What is really behind it To let the cat out of the bag There is more to object oriented programming than merely putting data as objects in the fore ground instead of algorithms to which the data are subject It is more than purely an alternative view of programmed systems To identify the essence of object oriented programming is the subject of this book This is a textbook that shows in a didactically skillful way which concepts and constructs are new where they can be employed reasonably and what advantages they offer For not all programs are automatically improved by merely recasting them in an object oriented style

**Object-Oriented Programming Languages: Interpretation** Iain D. Craig, 2007-07-16 1 1 Introduction Object oriented programming has opened a great many perspectives on the concept of software and has been hailed as part of the solution to the so called software crisis It has given the possibility that software components can be constructed and reused with considerably more credibility There are now many case studies in which the reuse of object oriented components has been made and analysed Object oriented programming relates the programming activity to that of modelling or simulation objects are identified by a correspondence with the objects found in the application area of the program and are used to model those domain operations Object oriented programming also opens the prospect of more flexible software that is able to respond dynamically to the needs of the application at runtime It is very easy to think that object oriented programming can be performed in only one way The prevalence of C and Java suggests that they are the only way to approach the problem of what an object oriented programming language should look like There are many approaches to this way of programming and C and Java exemplify just one of these different approaches Indeed the way in which the concept of the object is interpreted differs between approaches and between languages The two main approaches found in object oriented programming languages are respectively class based and prototype based languages Class based languages are exemplified by Smalltalk 34 C 75 74 and Java 47 This 2 1 Introduction approach is based upon the identification of common properties of objects and their description in terms of a definitional structure called a class The objects manipulated

by class based programs are the result of instantiating classes

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