

Code: 618/R

FACULTY OF SCIENCE
B.A./B.Com./B.Sc., II-Semester (Regular) Examinations, July/August-2022
AECC-II

BASIC COMPUTER SKILLS

(for Computer Science & Computer Applications)

Time: 1½ Hours

Max. Marks: 40

Section-A (Short Answer Questions)

2x5=10M

Note: Answer the following questions in not exceeding 20 lines each.

1. Draw the block diagram of Computer. Explain each block in detail.
2. Define Computer Network. Explain the basic types of Computer Networks.

Section-B (Essay Answer Questions)

2x15=30M

Note: Answer the following questions in not exceeding 4 pages each.

3. a) Explain the following terms.
 - i) Data and Information
 - ii) Applications of ICT
 - iii) Keyboard

(OR)

- b) Describe the functions and types of Operating System.

4. a) Elucidate the role of Internet in the present world and explain the applications of Internet.

(OR)

- b) Write a note on the following.
 - i) ISP
 - ii) Presentation Software
 - iii) Web Browsing



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FACULTY OF SCIENCE
B.A./B.Com./B.B.A./B.Sc., II-Semester (Regular) Examinations, July/August-2022
AECC-II
BASIC COMPUTER SKILLS
(for General)

Time: 1½ Hours

Max. Marks: 40

Section – A (Short Answer Questions)

4x4=16M

Note: Answer any **Four** of the following questions in not exceeding 20 lines each.

1. Draw and explain the block diagram of a Computer.
2. Briefly explain about any three Graphic Input Devices.
3. Differentiate between Software and Hardware.
4. Write about the inserting table and image features in MS-Word.
5. Write a short note on Information Systems.
6. Write about the Animation Control in slide preparation.

Section – B (Essay Answer Questions)

2x12=24M

Note: Answer the following questions in not exceeding 4 pages each.

7. a) Define Operating System. Explain the different types of Operating System.

(OR)

- b) Discuss advantages and disadvantages of Computers.

8. a) Explain formatting features of Word Processing.

(OR)

- b) Describe the process of creating a Presentation.



FACULTY OF SCIENCE
B.A./ B.Sc., I-Semester (Regular-Backlog) Examination, February/March-2022
COMPUTER SCIENCE & COMPUTER APPLICATIONS
Paper-I
Programming in C

Time: 3 Hours

Max. Marks: 80

Section - A (Short Answer Questions)

8 x 4 = 32M

Note: Answer any **Eight** of the following questions not exceeding 20 lines each.

1. Write the different types of memories in computer.
2. Write the structure of C-Program
3. What are the bit-wise operators in C-language?
4. Write a program to find largest of two numbers using if statement.
5. Explain nested-if statements with syntax.
6. List the functions from string.h header file.
7. What is the need of user-defined functions in C-language?
8. What are in-line functions?
9. Explain the difference between malloc () and calloc () functions.
10. Define union with syntax and example.
11. What are the enumeration types? Explain.
12. Write about ftell and fseek.

Section - B (Essay Answer Questions)

4 x 12 = 48M

Note: Answer any **Four** of the following questions in not exceeding 4 pages each.

13. Write a brief note on
 - i) Algorithm
 - ii) Flowchart
 - iii) PSEUDO- code
14. Explain the operator precedence and associativity in C-Programming with an example program.
15. Compare the functionality of following statements.
 - i) While and for
 - ii) Break and continue
 - iii) Switch-case and if statement
16. Write a program to print sum of all odd numbers from 1 to 50.
17. Explain the scope and lifetime of variables in functions.
18. Briefly explain pointers and arrays, and also write a program using pointers to compute the sum of all elements stored in an Array.
19. Explain the Input / Output operations on files in C-Programming with an example program.
20. What is Structure? Write a program to define a structure "book-bank" with field names (title, author, pages, price) and to read the data from keyboard and print the same on screen.

FACULTY OF SCIENCE

B.A./B.Sc., IV-Semester (Regular) Examinations, July/August-2022

COMPUTER SCIENCE

Paper-IV

Database Management Systems

Time: 3 hours

Max Marks: 80

Section-A (Short Answer Questions)

8x4=32M

Note: Answer any **Eight** of the following questions in not exceeding 20 lines each.

1. Functions of DBMS
2. Views
3. Relational Data Model
4. Sub Query and Correlated Sub Query
5. Cursor creation with syntax and example
6. PL/SQL control statements
7. Types of Attributes
8. Partial dependency
9. Data Redundancy and Anamolies
10. ACID properties
11. Types of Failures in DBMS
12. Database Security Threats

Section-B (Essay Answer Questions)

4x12=48M

Note: Answer the following questions in not exceeding 4 pages each.

13. a) Explain advantages of database approach, to eradicate the disadvantages of File-Based systems.

(OR)

- b) Explain the Relational Algebra operators with examples and syntax.

14. a) Explain the DML commands with syntax, and explain the various clauses of Select statement with an example each.

(OR)

- b) Explain different types of Integrity Constraints.

15. a) Explain Entity Relationship Model with example.

(OR)

- b) What is Normalization? Explain the 1NF, 2NF and 3NF with examples.

16. a) What is Concurrency Control? Explain any three concurrency control techniques.

(OR)

- b) Explain about backup and recovery techniques in database.

Code: 836/N/R

FACULTY OF COMMERCE
B.Com., I-Semester (Regular) Examinations, Nov./Dec.,-2019
Fundamentals of Information Technology

Time: 1½ Hours

Max. Marks: 50

PART-A

5 x 2=10M

I. Answer any Five questions not exceeding 20 lines each.

1. Characteristics of Computers
2. Voice Recognition System
3. Octal number system
4. PROM, EPROM
5. Assembly Language
6. Spread Sheet
7. Unix
8. Modem

PART-B

5 x 8=40M

II. Answer the following questions not exceeding 4 pages each.

9. a) What are the uses and limitations of the computer?

OR

b) Define scanner. Explain different types of scanners.

10. a) How will you convert a number from binary to decimal and vice-versa?

OR

b) Explain different types of storage devices used for backups.

11. a) Define software. Explain various types of softwares.

OR

b) Describe the features of MS-Word processing.

12. a) Elucidate the functions of operating system.

OR

b) Briefly explain multiprogramming, multitasking and batch processing.

13. a) Define communication and explain the process of communication.

OR

b) What are the different types of networks?

32768
512

33280

33280
512

33840

Code: 091/R/BL

FACULTY OF SCIENCES
B.Sc., II.I- Semester (Regular/Backlog) Examination, Nov./Dec.,-2019

Computer Science-3

Data Structures

Time: 3 Hours

Max. Marks: 80

Note: Answer any FIVE questions in Section-A and all questions in Section-B.

Section-A (Short Type Answers)

5x4=20M

1. Define data structures.
2. Convert $A * (B + C) * D$ to Postfix expression.
3. Define Recursion with example.
4. Explain doubly linked list with example.
5. Define trees and its operations.
6. Explain collision resolution strategies.
7. Explain Insertion sort with example
8. Explain heap sort with example.

Section-B (Essay Type Answers)

4x15=60M

9.a) Write a program to evaluate postfix expression using stack.

OR

b) Explain the concept of ordered list with suitable example.

10.a) Define Queue. Explain queue using Array in detail with suitable example.

OR

b) Define linked list and its types in detail with syntax and example.

11.a) Explain binary tree, its properties and applications with example in detail.

OR

b) Explain Graph traversal methods in detail with examples.

12.a) Explain Binary search in detail with example and program.

OR

b) Explain merge sort & quick sort in detail with example.

FACULTY OF COMMERCE

B.Com., I-I-Semester (Regular) Examinations, September/October-2021

(Common Paper for Computers and Computer Science)

Programming with C and C++

Time: 2 Hours

Max Marks: 50

Note: Answer any **Four** questions not exceeding 4 pages each. In case of theory questions.

4x12½=50M

1. Explain the process of executing the C program.
2. Write about operators in C.
3. Discuss about switch-case statement with program.
4. Explain briefly about nested loop statements.
5. Write about mathematical function using a program.
6. Write in detail about string in C language.
7. Difference between unions and structures.
8. Write about pointer with an example program.
9. Write about storage classes
10. Define the following, (i) Polymorphism and (ii) Encapsulation.

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Code: 672/E/R

FACULTY OF COMMERCE
B.Com., II-Semester (Regular) Examinations, September/October-2021
(Common Paper for Computers and Computer Science)
Programming with C and C++

Time: 2 Hours

Max Marks: 50

Note: Answer any **Four** questions not exceeding 4 pages each, in case of theory questions.

4x12½=50M

1. Explain the process of executing the C program.
2. Write about operators in C.
3. Discuss about switch-case statement with program.
4. Explain briefly about nested loop statements.
5. Write about mathematical function using a program.
6. Write in detail about string in C language.
7. Difference between unions and structures.
8. Write about pointer with an example program.
9. Write about storage classes.
10. Define the following, (i) Polymorphism and (ii) Encapsulation.



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Code: 672/E/R

FACULTY OF COMMERCE
B.Com.II, II-Semester (Regular) Examinations, September/October-2021
(Common Paper for Computers and Computer Science)
Programming with C and C++

Time: 2 Hours

Max Marks: 50

Note: Answer any **Four** questions not exceeding 4 pages each, in case of theory questions.

4x12½=50M

1. Explain the process of executing the C program.
2. Write about operators in C.
3. Discuss about switch-case statement with program.
4. Explain briefly about nested loop statements.
5. Write about mathematical function using a program.
6. Write in detail about string in C language.
7. Difference between unions and structures.
8. Write about pointer with an example program.
9. Write about storage classes.
10. Define the following, (i) Polymorphism and (ii) Encapsulation.



1008

Code: 769/R/BL

FACULTY OF COMMERCE
B.Com., V-Semester (Regular/Backlog) Examinations, December-2023
(2019, 2020 & 2021 Batches)
E-Commerce

Time: 2 Hours

Max. Marks: 50

Section - A (Short Answer Questions)

5 x 2 = 10M

Note: Answer any **Five** of the following questions not exceeding 20 lines each.

1. What are the advantages of E-Commerce to business? 2M
2. Sponsored link advertisement 2M
3. Operational Risk 2M
4. EDI Standards 2M
5. Search Engine 2M
6. Mobile Commerce 2M
7. VPN 2M
8. E-Cash 2M

Section - B (Essay Answer Questions)

5 x 8 = 40M

Note: Answer the following questions in not exceeding 4 pages each.

9. a) Compare and contrast the Traditional Commerce with Electronic Commerce. 8M
(OR)
b) What are the key technologies of B2B E-Commerce? Explain the architectural models of B2B E-Commerce. 8M
10. a) What is Firewall? How it helps in data security? 8M
(OR)
b) Write a short note on (i) Public Key (ii) Private Key (iii) Digital Signature (iv) Digital Certificate. 8M
11. a) What is the difference between debit card and credit card? 8M
(OR)
b) Explain Digital Wallet, Digital Cash and Digital Cheque in detail. 8M
12. a) What is EDI (Electronic Data Interchange)? Explain benefits and drawbacks of EDI process in detail. 8M
(OR)
b) Explain regulatory and legal issues related to EDI. 8M
13. a) Discuss the various marketing tools for Digital Marketing. 8M
(OR)
b) How digital marketing can help business to build up their products as brand? 8M

FACULTY OF COMMERCE

B.Com., II-Semester (Regular-Backlog) Examinations, January-2023
(2019, 2020 & 2021 Batches)

Relational Database Management System

Time: 2 Hour

Max. Marks: 50

Section - A (Short Answer Questions)

5 x 2=10M

Note: Answer any Five of the following questions not exceeding 20 lines each.

- 1. Sup* Keys
- 2. Attributes
- 3. Single Valued Dependencies
- 4. Tree Structure
- 5. Sequences
- 6. Backup and Recovery
- 7. Client Server Architecture
- 8. Data Fragmentation

Section - B (Essay Answer Questions)

5 x 8=40M

Note: Answer the following questions in not exceeding 4 pages each.

9. a) Explain the domain constraints in Database Management System.

(OR)

b) Define Database. What are the various types of database? Explain in detail.

10. a) What is Data Integrity? Describe the integrity constraints that are used in a relational database structure to achieve data integrity.

(OR)

b) What do you understand by File Organization? Explain its objectives and types.

11. a) "SQL is a database query language used for storing and managing data in Relational DBMS." Comment.

(OR)

b) Distinguish between order by and group by clause in SQL. How to use these two together?

12. a) What is concurrency management in DBMS? What are its objectives? Describe with examples.

(OR)

b) Illustratively explain the different types of database errors.

13. a) What is Client Server System? State its features, structure and advantages.

(OR)

b) Define Distributed Database System. Discuss its need, structure and importance.



Code: 075/R

FACULTY OF COMMERCE
B.Com., II-Semester (Regular) Examinations, July-2023
Programming with C & C++

Time: 2 hour

Max Marks: 50

Section-A (Short Answer Questions)

5x2=10M

Note: Answer any **Five** of the following questions in not exceeding 20 lines each.

1. Keywords in C
2. For statement
3. String ()
4. Call by value
5. Pointer
6. Unions
7. OOP concept
8. Increment/ Decrement operator

Section-B (Essay Answer Questions)

5x8=40M

Note: Answer the following questions in not exceeding 4 pages each, in case of theory questions.

9. a) What do you mean by C Language? Write the structure and programming rules of a C program.

(OR)

- b) Explain the different types of operators available in C language.

10. a) What is Looping Statement? Explain the types of looping statements with example program.

(OR)

- b) Explain the conditional statement with an example program.

11. a) What are the different mathematical functions in C language?

(OR)

- b) Write about an Array with an example program.

12. a) What is a pointer? Write a program to declare a pointer.

(OR)

- b) Differentiate between Structure and Union.

13. a) What is OOP? Write the structure of C++ program.

(OR)

- b) Explain the terms Class and Object and write an example program to support it.

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FACULTY OF COMMERCE

B.Com., III-Semester (Regular-Backlog) Examinations, January-2023
(2019, 2020 & 2021 Batches)

Relational Database Management System

Time: 2 Hour

Max. Marks: 50

Section - A (Short Answer Questions)

5 x 2=10M

Note: Answer any **Five** of the following questions not exceeding 20 lines each.

1. Super keys
2. Attributes
3. Single Valued Dependencies
4. Tree Structure
5. Sequences
6. Backup and Recovery
7. Client Server Architecture
8. Data Fragmentation

Section - B (Essay Answer Questions)

5 x 8=40M

Note: Answer the following questions in not exceeding 4 pages each.

9. a) Explain the domain constraints in Database Management System.

(OR)

b) Define Database. What are the various types of database? Explain in detail.

10. a) What is Data Integrity? Describe the integrity constraints that are used in a relational database structure to achieve data integrity.

(OR)

b) What do you understand by File Organization? Explain its objectives and types.

11. a) "SQL is a database query language used for storing and managing data in Relational DBMS." Comment.

(OR)

b) Distinguish between order by and group by clause in SQL. How to use these two together?

12. a) What is concurrency management in DBMS? What are its objectives? Describe with examples.

(OR)

b) Illustratively explain the different types of database errors.

13. a) What is Client Server System? State its features, structure and advantages.

(OR)

b) Define Distributed Database System. Discuss its need, structure and importance.

FACULTY OF COMMERCE

B.Com., V-Semester (Regular-Backlog) Examinations, January-2023

(2019 & 2020 Batches)

E-Commerce

(for Computer Applications)

Time: 2 Hour

Max. Marks: 50

Section - A (Short Answer Questions)

5 x 2=10M

Note: Answer any **Five** of the following questions not exceeding 20 lines each.

1. Online Shopping
2. Digital Signature
3. Site Security
4. E-Cash
5. Debit Cards
6. Outbound Documents
7. Trading Partners
8. Search Engines

Section - B (Essay Answer Questions)

5 x 8=40M

Note: Answer the following questions in not exceeding 4 pages each.

9. a) Define E-Commerce. Discuss its features, advantages and disadvantages.

(OR)

- b) Explain the impact of E-Commerce on various Business Models.

10. a) What is a firewall? Why do we need firewalls? How do firewalls prevent computer viruses?

(OR)

- b) Define Cryptography. Discuss its principles and types. What problems does cryptography solve?

11. a) Explain the on-line mercantile model from customer perspective.

(OR)

- b) What do you understand by Electronic fund Transfer? What are its advantages and risks?

12. a) Distinguish between Traditional EDI and Internet Based EDI.

(OR)

- b) What is EDI software? How is it implemented in E-Commerce?

13. a) Define Electronic Marketing. Discuss its features, advantages and disadvantages.

(OR)

- b) Explain the measurement of E-Marketing Mix elements for online business.

FACULTY OF COMMERCE
B.Com., II-Semester (Regular) Examinations, July/August-2022
Programming with C & C++

Time: 1½ hour

Max Marks: 50

Section-A (Short Answer Questions)

5x2=10M

Note: Answer any **Five** of the following questions in not exceeding 20 lines each.

1. ALGOL
2. Flow Charts
3. The While Loop
4. Character Functions
5. Null Pointers
6. Accessing Union Members
7. Factorial
8. Templates in C++

Section-B (Essay Answer Questions)

5x8=40M

Note: Answer the following questions in not exceeding 4 pages each, in case of theory questions.

9. a) What is C Language? Explain its history and structure.

(OR)

- b) Describe the rules for defining Variables. State the scope and life of a variable.

10. a) Explain the various types of control statements in C programming.

(OR)

- b) What is Looping Statement in C? What are its types? State its advantages.

11. a) Explain the functions in C programming with examples.

(OR)

- b) Describe the structure and applications of Arrays.

12. a) What are the features and uses of Pointers in C programming?

(OR)

- b) Distinguish between Unions and Structures in C Programming.

13. a) Explain the advantages of object oriented programming over procedural programming.

(OR)

- b) Illustratively describe the simple program of C++.

FACULTY OF SCIENCE
B.Sc., IV-Semester (Regular-Backlog) Examinations, June/July-2023
COMPUTER SCIENCE
(2019, 2020 & 2021 Batches)
Paper-IV
Database Management Systems

Time: 3 hours

Max Marks: 80

Section-A (Short Answer Questions)**8x4=32M****Note:** Answer any **Eight** of the following questions in not exceeding 20 lines each.

1. Write the role of DBA in Database Environment.
2. Define DBMS. Write the functions of DBMS.
3. Write short note on integrity constraints.
4. Illustrate the concept of aggregate functions in SQL with an example.
5. How to create functions in advanced SQL?
6. Explain different scalar types of PL/SQL.
7. Briefly explain relationship types in ER modelling.
8. Discuss about structural constraints.
9. Discuss about strong entity and weak entity with suitable examples.
10. Write short note on optimistic techniques.
11. Discuss about database security and threats.
12. What are the recovery techniques?

Section-B (Essay Answer Questions)**4x12=48M****Note:** Answer the following questions in not exceeding 4 pages each.

13. a) Explain fundamental operations of relational algebra with example for each.

(OR)

- b) Describe the main characteristics of the database approach in contrast with the file processing system.

14. a) Define SQL, explain data manipulation statements in SQL with one example for each.

(OR)

- b) What is trigger? Explain how to create a trigger with an example.

15. a) Define normalization. Explain 3NF and BCNF with examples.

(OR)

- b) Describe about specialization, generalization and aggregation with examples.

16. a) Explain the various ways in which concurrency control can be implemented in database.

(OR)

- b) Define deadlock? Write about deadlock handling techniques.

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FACULTY OF SCIENCE & SOCIAL SCIENCES
B.A., B.Sc., I-Semester (Regular-Backlog) Examinations, February/March-2023
COMPUTER SCIENCE / COMPUTE APPLICATIONS
 (2019, 2020, 2021 & 2022 Batches)

Paper-I
Programming in C

Time: 3 hours

Max Marks: 80

Section-A (Short Answer Questions)

8x4=32M

Note: Answer any **Eight** of the following questions in not exceeding 20 lines each.

1. Draw and explain the components of CPU.
2. Define the following: (i) Compiler (ii) Interpreter.
3. Write a simple C program to add two numbers.
4. Explain about escape sequences.
5. What is the use of break statement? Write a program to demonstrate it.
6. Define an array with syntax and example.
7. Define a function. Write about inline function.
8. What is a pointer? Write the uses of a pointer.
9. What is recursion? Explain with an example.
10. Differentiate structure and union with examples.
11. Write about different C files.
12. Write a C program to create a file.

Section-B (Essay Answer Questions)

4x12=48M

Note: Answer the following questions in not exceeding 4 pages each.

13. a) Define operating system. Explain various services of operating systems.
 (OR)
 b) Explain all C operators with expressions in detail.
14. a) Describe various iterative statements with program for each.
 (OR)
 b) What is multi-dimensional array? Write a C program to add two matrices.
15. a) Differentiate Call-By-Value and Call-by-Reference with program for each.
 (OR)
 b) What is dynamic memory allocation? Write a program to demonstrate Malloc and Calloc functions.
16. a) Define structure? Write a program to initialize and access elements of structure.
 (OR)
 b) Write a program to create five employee records and calculate salary.

FACULTY OF SCIENCE & SOCIAL SCIENCES**B.A./B.Sc., I-Semester (Regular/Backlog) Examinations, December-2023***(2019, 2020, 2021, 2022 & 2023 Batches)***COMPUTER SCIENCE / COMPUTE APPLICATIONS****Paper-I****Programming in C****Time: 3 hours****Max Marks: 80****Section-A (Short Answer Questions)****8x4=32M****Note:** Answer any **Eight** of the following questions in not exceeding 20 lines each.

1. Define Operating System and write the functions. 4M
2. Briefly explain the classification of programming languages. 4M
3. Write about primary data types in C language. 4M
4. Describe the characteristics and purpose of escape sequence characters. 4M
5. Explain the switch statement with syntax and example 4M
6. What is Array? Explain with syntax and example. 4M
7. Differentiate call-by-value Vs. call-by-reference. 4M
8. What are the storage classes in C language? Explain. 4M
9. What is Pointer? How pointers are declared and initialized explain briefly. 4M
10. What is structure? Write the syntax for defining a structure. 4M
11. Write about fopen(), getc(), fseek(), getw() functions. 4M
12. What are the common uses of rewind() and ftell() functions. 4M

Section-B (Essay Answer Questions)**4x12=48M****Note:** Answer the following questions in not exceeding 4 pages each.

13. a) Explain the different ways of stating algorithms and the strategy for designing algorithms. 12M
(OR)
b) Explain the various operators in C language and write a program to demonstrate the use of operators. 12M
14. a) Explain the various decision making statements in C language with syntax and example. 12M
(OR)
b) Briefly explain string handling functions in C language with syntax and example. 12M
15. a) Explain the concept of functions in C language and write a program using function that generate and print n-fibonacci numbers. 12M
(OR)
b) Write a program using pointers to read in an array of integers and print its elements in reverse order. 12M
16. a) Write a program to copy the contents of one file into another file. 12M
(OR)
b) What is meant by the following terms (i) Nested structure (ii) Array of structure. 12M

FACULTY OF SCIENCE

B.A./B.Com./B.B.A./B.Sc., II-Semester (Regular) Examinations, July-2023

AECC-II

BASIC COMPUTER SKILLS

(for Computer Science & Computer Applications)

Time: 1½ Hours

Max. Marks: 40

Section-A (Short Answer Questions)

2x5=10M

Note: Answer the following questions in note exceeding 20 lines each.

1. What are input and output devices? Explain with examples.
2. Explain about the basics of spreadsheet.

Section-B (Essay Answer Questions)

2x15=30M

Note: Answer the following questions in not exceeding 4 pages each.

3. a) Explain the following: (i) Components of a computer (ii) Operations of windows operating system (iii) Applications of IECT.

(OR)

- b) Describe the process of table handling, spell check and grammar check in the word documents.

4. a) Illustrate the formulas and functions in the spreadsheet using examples.

(OR)

- b) Explain the process of creating a presentation in the PowerPoint with design templates and custom animation.

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