

Dec-24-03-2641
B.C.A Sem. -I (NEP) Examination
Course Implemented From June-2023
Dec -2024

Fundamental of Programing Language C-MS23MJDSCBCA101

Total Marks :50

Time : 2¹/₂ Hours

- | | | |
|---|--|----|
| 1 | Attempt any Two | 10 |
| | 1. Explain various symbols of flowchart | |
| | 2. Explain Basic Structure of C | |
| | 3. Explain data types in C | |
| 2 | Attempt any Two | 10 |
| | 1. Explain relational operators with example | |
| | 2. Explain Operator Precedence and associativity | |
| | 3. Write a C program to find maximum number from given three numbers using conditional operator. | |
| 3 | Attempt any Two | 10 |
| | 1. Explain else if ladder with example | |
| | 2. Explain while and do while with its difference | |
| | 3. Write a C program to check that entered number is prime or not? | |
| 4 | Attempt any Two | 10 |
| | 1. Explain Array handling with suitable example | |
| | 2. Explain any five string handling functions with Example | |
| | 3. Write C program for Matrix multiplication | |
| 5 | Attempt any Ten | 10 |
| | 1. Define Compiler | |
| | 2. Define Assembler | |
| | 3. Define Syntax of conditional operator | |
| | 4. Define continue statement | |
| | 5. Define Syntax of switch statement | |
| | 6. Define atoi() function | |
| | 7. C is high-level programming language (True / False) | |
| | 8. Originally, C was developed at Bell Labs (True / False) | |
| | 9. _____ Operator is used to check two values are equals | |
| | 10. 7%10=_____ | |
| | 11. _____ is disadvantage of Array | |
| | 12. To compare two string _____ Function is used | |

Dec-24-03-2651
B.C.A Sem. -I (NEW) Examination
Course Implemented after June- 2020
Dec -2024

BCA-101 Fundamental of Programming Language 'C'

Total Marks :70

Time : 2½ Hours

- | | | |
|------|--|----|
| 1(a) | Do as directed (Any four) | 04 |
| | 4. Every c program ends with an an END word (T/F) | |
| | 5. The ____ header file contains mathematical functions | |
| | 6. Find Errors, if any feeefee | |
| | <pre>Main []
 {
 Print ("How are you Doctor")
 }</pre> | |
| | 7. What is void? | |
| | 8. A External variable is also known as ____ variable | |
| 1(b) | Attempt the following (any two) | 08 |
| | 1. Explain basic structure of c in detail | |
| | 2. Describe the naming rules of variable | |
| | 3. What is C Token? Explain in detail | |
| 2(a) | Do as directed (Any four) | 04 |
| | 1. The expression ! (x ≥ y) is same as the expression x > y (T/F) | |
| | 2. The ____ operator returns the number of bytes the operator occupies | |
| | 3. Find the output of the following program? | |
| | <pre>main ()
 {
 int a=21;
 printf("%d\n"15+++a);
 printf("%d\n",5+a--);
 }</pre> | |
| | 4. Give the definition of putchar() | |
| | 5. The ____ specification is used to read or write a long integer | |
| 2(b) | Attempt the following (Any two) | 08 |
| | 1. Describe eight difference operator and explain any one operator in detail | |
| | 2. Write short note on formatted input in detail | |
| | 3. Write short note on formatted output in detail | |
| 3(a) | Do as directed (Any Four) | 04 |
| | 1. The ____ operator is true only when both the operands are true | |
| | 2. The expression !(x<=y) can be replace by the expression ____ | |
| | 3. What is break? | |
| | 4. The ____ statement is used to skip a part of the statement in a loop. | |
| | 5. An entry-controlled loop is execute a minimum of one time (T/F) | |
| 3(b) | Attempt the following (Any two) | 08 |
| | 1. Explain nested if.... else statement in detail | |
| | 2. Describe the difference between while and do... while | |
| | 3. Explain for loop in detail | |
| 4(a) | Do as directed (Any Four) | 04 |
| | 1. An array can be initialization either at compile time or at ____ | |
| | 2. In C, by default the first subscript is zero (T/ F) | |
| | 3. Define strstr() | |
| | 4. Define getw() and putw() | |

5. Define strchr()

4(b) Attempt the following (Any two) 08

1. What is an Array? Explain one dimensional array in detail
2. Write short note on string handling function in detail
3. Explain Multi dimensional array in detail

5(a) Attempt the following (Any Two) 10

1. Write a c program to print name and address of person
2. Write a c program to evaluate simple interest $I = P * R * N / 100$
3. Write a c program to find given number is palindrome or not.

5(b) Attempt the following (Any two) 12

1. Write a c program to display following output on the screen

1
12
123
1234

2. Write c program to find maximum and minimum value from the given array
3. Write a c program to display following output on the screen

1
2 2
3 3 3
4 4 4 4

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Dec-24-03-2661
B.C.A Sem. -I (OLD) Examination
Course Implemented before June- 2020
Dec -2024

BCA-101 Fundamental of Programming Language 'C'

Total Marks :70

Time : 2¹/₂ Hours

- | | | |
|------|---|----|
| 1(a) | Do as directed (Any four) | 04 |
| | 9. Every line in a c program should end with a semicolon (T/F) | |
| | 10. Every c program must have at least one user-define function (T/F) | |
| | 11. Find Errors, if any feeefee | |
| | <pre>void []
{
 Print ("How are you Painter")
}</pre> | |
| | 12. The ___ function is used to display the output on the screen? | |
| | 13. A global variable is also known as ___ variable | |
| 1(b) | Attempt the following (any two) | 08 |
| | 4. Explain basic structure of c in detail | |
| | 5. Explain the naming rules of variable | |
| | 6. What is C constant? Explain in detail | |
| 2(a) | Do as directed (Any four) | 04 |
| | 6. The underscore can be used anywhere in an identifier (T/F) | |
| | 7. The ___ operator return the number of bytes the operator occupies | |
| | 8. The keyword void is a data type in c (T/F) | |
| | 9. Give the definition of overflow | |
| | 10. The ___ specification is used to read or write a long float | |
| 2(b) | Attempt the following (Any two) | 08 |
| | 4. Write short note on formatted input in detail | |
| | 5. Write short note on formatted output in detail | |
| | 6. Describe eight difference operator and explain Arithmetic operator in detail | |
| 3(a) | Do as directed (Any Four) | 04 |
| | 6. The ___ statement is used to skip a part of the statement in a loop | |
| | 7. What is size of() | |
| | 8. What is break? | |
| | 9. The ___ operator is true only when both the operands are true | |
| | 10. An entry-controlled loop is execute a minimum of one time (T/F) | |
| 3(b) | Attempt the following (Any two) | 08 |
| | 4. Explain if... else statement in detail | |
| | 5. Describe the difference between while and do ... while with suitable example | |
| | 6. Explain switch statement in detail | |
| 4(a) | Do as directed (Any Four) | 04 |
| | 6. The sentinel-controlled loop is also known as ___ loop | |
| | 7. Both the pretest loops include initialization within the statement (T/F) | |
| | 8. Define strchr() | |
| | 9. Define gets() and getw() | |
| | 10. Define strstr() | |
| 4(b) | Attempt the following (Any two) | 08 |
| | 4. What is an Array? Explain two dimensional array in detail | |
| | 5. Write short note on string handling function in detail | |
| | 6. Explain Multi-dimensional array in detail | |

5(a) Attempt the following (Any Two) 10

4. Write a c program to find factorial of given number
5. Write a c program to find area of circle using formula $\text{Area} = \pi * R * R$
6. Write a c program to find given string is palindrome or not

5(b) Attempt the following (Any two) 12

4. Write a c program to display following output on the screen

1
23
456
78910

5. Write c program to find maximum and minimum value from the given array

6. Write a c program to display following output on the screen

*
*
*
*
*
*
*
*
*
*

Dec-24-03-2642
B.C.A Sem. -I (NEP) Examination
Course Implemented From June-2023
Dec -2024

Database Management System & PC Packages-MS23MJDSCBCA101A

Total Marks :50

Time : 2½ Hours

- | | | |
|---|--|----|
| 1 | Attempt any Two
1. Explain Advantages and Disadvantages of DBMS
2. Explain Components of DBMS
3. Explain Function of DBMS | 10 |
| 2 | Attempt any Two
1. Explain three levels of architecture of DBMS
2. Explain Traditional set operators
3. Explain Network data model | 10 |
| 3 | Attempt any Two
1. Explain the 1NF in detail
2. Explain Components of E-R Diagram
3. Explain BCNF in detail | 10 |
| 4 | Attempt any Two
1. Explain All Object of MS Access
2. Explain data types of MS Access
3. What is form? Write a Step to create form using wizard | 10 |
| 5 | Attempt any Ten
1. Data
2. Database
3. Redundancy
4. Metadata
5. Attribute
6. Domain
7. Functional Dependency
8. Tuple
9. Memo
10. Caption | 10 |

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Dec-24-03-2652
B.C.A Sem. -I (NEW) Examination
Course Implemented after June- 2020
Dec -2024
BCA-102 Database Management System

Total Marks :70		Time : 2¹/₂ Hours
1(a)	Define following Term	06
	4. Database	
	5. DBMS	
	6. Redundancy	
	7. Consistency	
	8. Shared Data	
	9. Meta Data	
1(b)	Attempt the following (any two)	12
	1. Explain Components of DBMS	
	2. Explain Advantages of DBMS	
	3. Explain Role of DBA	
2(a)	Define Following Term	05
	1. Primary Key	
	2. Foreign Key	
	3. Alternate Key	
	4. Candidate Key	
	5. Cardinality	
2(b)	Attempt the following (Any two)	12
	1. Explain Relational Data Model with Example	
	2. Explain Three Level of Architecture of DBMS	
	3. Explain Tradition set operation with Example	
3(a)	Define following Term	06
	1. Normalization	
	2. Entity	
	3. Attribute	
	4. Relationship	
	5. Functional Dependency	
	6. Derive Attribute	
3(b)	Attempt the following (Any two)	12
	1. Explain 1 st and 2 nd Normal form with Example	
	2. Explain 3 rd Normal form with Example	
	3. Explain E-R Model with Example	
4(a)	Do as directed	05
	1. What is Ms-Access?	01
	2. Give Use of Memo Data Type	02
	3. Give maximum length of text filed	01
	4. Give Elements of MS-Access	01
4(b)	Answer the following	12
	1. Explain Data Type of MS-Access	
	2. Explain controls of Form and Report	
	3. Explain Fields Property	

Dec-24-03-2662
B.C.A Sem. -I (OLD) Examination
Course Implemented before June- 2020
Dec -2024
BCA-102 Database Management System

Total Marks :70

Time : 2¹/₂ Hours

- | | | |
|------|--|----------------------------|
| 1(a) | Define following Term | 06 |
| | 10. Database
11. DBMS
12. Redundancy
13. Consistency
14. Itrigated Data
15. Meta Data | |
| 1(b) | Attempt the following (any two)
4. Explain Components of DBMS
5. Explain Advantages of DBMS
6. Explain Role of DBA | 12 |
| 2(a) | Define following Term
6. Primary Key
7. Foreign Key
8. Alternate Key
9. Candidate Key
10. Degree | 05 |
| 2(b) | Attempt the following (Any two)
4. Explain Relational Data Model with example
5. Explain Three Level of Architecture of DBMS
6. Explain Special Relational operation with Example | 12 |
| 3(a) | Define Following Term
7. Normalization
8. Entity
9. Attribute
10. Relationship
11. Base Attribute
12. Derive Attribute | 06 |
| 3(b) | Attempt the following (Any two)
4. Explain 2 nd Normal form with example
5. Explain 3rd Normal form with example
6. Explain E-R Model with Example | 12 |
| 4(a) | Do as directed
5. What is Ms-Access?
6. Give Use of Memo Data Type
7. Give maximum length of text filed
8. Give Elements of Ms-Access | 05
01
02
01
01 |
| 4(b) | Attempt the following (Any two)
4. Explain Data Types of MS-Access
5. Explain controls of Form and Report
6. Explain Filed Property | 12 |

Dec-24-03-2643
B.C.A Sem. -I (NEP) Examination
Course Implemented From June-2023
Dec -2024

Computer Organization MS23MDCBCA-103

Total Marks :50

Time : 2¹/₂ Hours

- | | | |
|---|--|----|
| 1 | Attempt any Two | 10 |
| | 1. Difference between CUI and GUI | |
| | 2. Explain all generation of Computer | |
| | 3. Explain operating system in detail | |
| 2 | Attempt any Two | 10 |
| | 1. Explain any five input device in detail | |
| | 2. Difference between RAM and ROM | |
| | 3. Explain Switch and Hub in detail | |
| 3 | Attempt any Two | 10 |
| | 1. Explain number system in detail | |
| | 2. What is binary code? Explain any two types of binary code | |
| | 3. Covert the following pair | |
| | A. $(245.65)_2 = ()_{10}$ | |
| | B. $101010.10-010011.11$ | |
| | C. $(40.253)_8 = ()_{16}$ | |
| 4 | Attempt any Two | 10 |
| | 1. Explain logic gate in detail | |
| | 2. What is combination circuit? Explain any one in detail | |
| | 3. Explain encoder in detail | |
| 5 | Attempt the Following | 10 |
| | 1. Define main memory | |
| | 2. What is Plotter? | |
| | 3. Define Hardware and Software | |
| | 4. What is NIC? | |
| | 5. What is Analog and Digital signals. | |

Dec-24-03-2653
B.C.A Sem. -I (NEW) Examination
Course Implemented after June- 2020
Dec -2024
BCA-103Computer Organization

Total Marks :70		Time : 2¹/₂ Hours
1(a)	Answer the following	06
	4. Different between DOS and Windows	
	5. Define Hardware and Software.	
	6. Full Form BITS,MU	
1(b)	Attempt the following (any two)	12
	1. Discuss Generation of Computer	
	2. Explain Merits and Demerits of Computer	
	3. Discuss Major Part of Computer	
2(a)	Attempt the following	05
	1. Explain Type of RAM	
	2. Explain Optical Storage Devices	
2(b)	Attempt the following (Any two)	12
	1. Explain Type of Monitor	
	2. Discuss any two input device	
	3. Explain secondary storage Device Hard Disk	
3(a)	Attempt the following	06
	1. Convert $(10101011)_2$ to Decimal	
	2. Convert $(350)_{10}$ to Binary	
	3. Convert $(456)_8$ to Decimal	
3(b)	Attempt the following (Any two)	12
	1. Convert $(225.50)_8$ to Binary	
	2. Convert $(100111.1010)_2$ to Octal	
	3. Covert $(633.250)_{10}$ to Hexadecimal	
	4. Add 5 and 7 Using Excess-3 code	
4(a)	Attempt the following	05
	1. Define NAND Gate	
	2. Define 8421 BCD Code	
4(b)	Answer the following (Any Two)	12
	1. What is logic Gates? Explain Exclusive gates	
	2. Explain 10 to 4 line Encoder in detail	
	3. Explain Full Adder.	

Dec-24-03-2663
B.C.A Sem. -I (OLD) Examination
Course Implemented before June- 2020
Dec -2024
BCA-103Computer Organization

Total Marks :70		Time : 2¹/₂ Hours
1(a)	Attempt the following 7. Different between GUI and CUI 8. Define Hardware and Software 9. Full form CPU, ALU	06
1(b)	Attempt the following (any two) 4. Discuss Type of Computer 5. Explain System Software and Application Software 6. Explain Merits and Demerits of Computer	12
2(a)	Attempt the following 3. Explain Type of ROM 4. Explain Optical Storage Devices	05
2(b)	Attempt the following (Any two) 4. Explain Type of Printer 5. Discuss any two input device 6. Explain secondary storage Device Hard Disk	12
3(a)	Attempt the following 4. Convert $(100001)_2$ to Decimal 5. Convert $(540)_{10}$ to Binary 6. Convert $(332)_8$ to Decimal	06
3(b)	Attempt the following (Any Three) 5. Convert $(525.50)_8$ to Binary 6. Convert $(100111.1010)_2$ to Octal 7. Convert $(632.200)_{10}$ to Hexadecimal 8. Add 9 and 5 Using Excess-3 Code	12
4(a)	Attempt the following 3. Define : NOR Gate 4. Define : 8421 BCD Code	05
4(b)	Attempt the following (Any two) 4. What is logic Gates? Explain Exclusive gates 5. Explain 3 to 8 line Decoder in detail 6. Explain full Adder	12

Dec-24-03-2644
B.C.A Sem. -I (NEP) Examination
Course Implemented From June-2023
Dec -2024
Communication Skills-I MS23AECBCA104

Total Marks : 25

Time : 2 Hours

- | | | |
|------|---|----|
| 1 | Answer the following (Any Two) | 10 |
| | 1. What is communication? Explain communication Process in detail | |
| | 2. What is communication? explain verbal communication in details | |
| | 3. Explain Dimensions of communication | |
| 2(a) | Find out the correct part of speech of the following underlined words (Any Two) | 02 |
| | 1. John <u>never</u> puts sugar in his coffee. | |
| | 2. The computer is having <u>technical</u> problems | |
| | 3. What are the eight parts of <u>speech</u> ? | |
| 2(b) | Choose the correct form of the verb that agrees with the subject (Any Two) | 02 |
| | 1. Most of my friends _____ government employees (is / are) | |
| | 2. Slow and steady _____ the race (win / wins) | |
| | 3. Neither Jenny nor Amy _____ gone to work (has / have) | |
| 2(c) | Change the following active sentence into passive voice (Any Two) | 02 |
| | 1. Will you help him? | |
| | 2. The people were helping the wounded woman | |
| | 3. Who wrote this book? | |
| 2(d) | Change the following Direct speech sentence to Indirect narration (Any Two) | 02 |
| | 1. He said "She has finished her homework" | |
| | 2. She said "I will be in India tomorrow" | |
| | 3. Rama said, 'I must complete the assignment' | |
| 2(e) | Do as directed (Any Two) | 02 |
| | 1. Suman _____ swim You _____ not allow her to go to the swimming pool.
(i) can't must (ii) shouldn't, will (iii) will not can not | |
| | 2. Children _____ always listen to their parents (should, must , can) | |
| | 3. He works hard (Create Questions and Negative) | |
| 3. | Do as directed (Any Five) | 05 |
| | 1. Define feedback in Communication | |
| | 2. Define Non Verbal Communication | |
| | 3. _____ you like some sweets that I made yesterday? (would / can) | |
| | 4. What is Barrier in communication? List types of Barriers | |
| | 5. The children _____ loudly during the game (cheer / cheers) | |
| | 6. They are working in a shop (Create 'Wh' Question) | |
| | 7. Father said to his son, "Don't quarrel" (Change the speech) | |

Dec-24-03-2654
B.C.A Sem. -I (NEW) Examination
Course Implemented after June- 2020
Dec -2024
BCA-104Communication Skills

Total Marks :70

Time : 2½ Hours

- 1(a) Attempt Any Two in Detail
1. What is Communication? Discuss Meaning and Objectives 06
- OR
1. Discuss the process and Importance of Communication 06
2. Describe what are the methods of communication? 06
- OR
2. Dimension of Communication 06
3. Barriers to communication 06
- OR
3. Steps of Effective Communication
- 2(a) Find Part of Speech 05
1. Asoka was a noble King (Find Noun)
2. Mohan is ill he will not come to school(Find Pronoun)
3. Bombay is the big city (Find Verb)
4. Two and Two make four (Find Conjunction)
5. The duster is on the table (Find Preposition)
- 2(b) Fill in the blanks with proper model auxiliaries (Any Three) 03
1. _____ you like to enjoy Tea or Coffee?
2. We _____ pray the god
3. When he was young, he _____ run fast
4. You _____ pray god daily
- 2(c) Change the following into passive voice (Any Three) 06
1. I eat an apple
2. I ate an apple
3. She has written a letter
4. I am eating an apple
5. I was eating an apple
- 3 Answer any three
1. Write an order letter for stationary items confirming a telephonic order 06
- OR
1. Inviting quotation for crockery to international rockeries, Delhi form Juhi Glassware, Rajkot 06
2. Write a voluntary offer letter introducing a herbal soap, shampoo and toothpaste 06
- OR
2. Write a letter of cancel the order as you already have the stock with you 06
3. Write a letter requesting to publication house for samples 06
- OR
3. Write a letter requesting to a shop for wristwatch for samples
- 4(a) Fill in the blanks with right words given in the brackets (Any three) 03
1. Our teacher _____ a beautiful lines from Shakespeare's Othello (Cited, Sited, Sighted)
2. Cholesterols stored in the blood _____ cause heart attack (vains, veins , wanes)
3. Leprosy is a _____ disease (contagious, contiguous)
4. You are not _____ for the post (illegible, eligible)
- 4(b) Write one word substitution for the following (Any three) 03
1. One who sees only negative side of anything?
2. One who believe in fate

- 3. One who loves his country?
- 4. One who dies fighting for his country?
- 5. One who spend too much.

4(c)	Write antonyms of any two	02
	1. Sharp	
	2. Enemy	
	3. Lazy	
4(d)	Write synonym of any two	02
	1. Angry	
	2. Brave	
	3. untrustworthy	
4(e)	Write an essay on any one of the following	07
	1. My Friend	
	2. Science is a gift	

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Dec-24-03-2664
B.C.A Sem. -I (OLD) Examination
Course Implemented before June- 2020
Dec -2024
BCA-104Communication Skills

Total Marks :70

Time : 2½ Hours

- 1(a) Attempt Any Two in Detail
1. Discuss the type of communication? 06
- OR
1. Explain the barriers of communication
2. Process of Communication 06
- OR
2. Discuss the basic principles of effective communication
3. Short Question 06
1. What is Decoding?
2. What is encoding?
3. What is channel?
4. Who is sender in communication?
5. Who is receiver in communication?
6. Explain the trends in communication
- 2(a) Fill in the Gaps 06
1. There is a boy ___ the garden (Use Preposition)
2. She is sitting ___ the bench (Use Preposition)
3. You should fill your pen ___ ink (Use Preposition)
4. This was ___ house (his/he)
5. Those were ___ books (my, mine)
6. That college is ___ (my, mine)
- 2(b) Fill Do as directed 06
1. Asoka was noble King (Find Noun)
2. I eat an apple (Make question)
3. I eat an apple (Make Negative)
4. I am eating an apple (Find Tense)
5. I shall be eating (Find Tense)
6. I was eating (Find Tense)
- 2(c) Do as per Instructions given 05
1. Two ___ two make four (Put Appropriate Conjunction)
2. He is rich ___ he is honest. (Put Appropriate Conjunction)
3. Ramesh is fat and ___ is quite active (Put Appropriate Pronoun)
4. Man Proposes ___ Gos disposes (Put Appropriate Conjunction)
5. Ram is god. He is living in Ayodhya (Underline the Preposition)
- 3 Answer any three
1. Write an application for the post of a computer programmer addressing it to the M.L Gandhi
BCA Collage Modasa 06
- OR
1. Write an application for the post of a computer programmer addressing it to the Director,
Nirma University Ahmedabad.
2. Write an application to the Director, APMC Modasa for obtaining original documents 06
- OR
2. Write an application to the Director, BAO University for obtaining original documents

3. Write an application demanding loan to purchase of a car against SBI Bank Modasa 06
OR

3. Write an application demanding Home loan to purchase of a car against ICICI Bank Surat

4(a) Translate in to Gujarati or Hindi 05

1. She speaks French
2. This book is not very costly
3. Do you live here?
4. We all love our nation
5. Are you wasting time?

4(b) Discuss the question 06

1. Tips for success in group discussion
2. Describe the point of good communication

4(c) Explain in detail 06

1. Discuss the Interview
2. Discuss the Presentation

Dec-24-03-2646
B.C.A Sem. -I (NEP) Examination
Course Implemented From June-2023
Dec -2024
Mathematics - I – MS23SECBCA-106

Total Marks :25

Time : 2 Hours

1. Answer the following (Any Two) 10
 1. Discuss Associative Law for Union and intersection
 2. If $A = \{x / x \text{ is even number } < 10, x \in N\}$
 $B = \{x / 4 \leq x < 10, x \text{ is divide by } 2\}$
 $C = \{x / x^3 \leq 64, x \in N\}$
Find $A \cap B, B \cap C, C \cap A, (A \cap B) \cup C, A \cup (B \cap C)$ and $A \cap B \cap C$
 3. If $A = \{1,2,3,4,5,6\}$
 $B = \{2,4,6,8,10\}$
 $C = \{3,4,5,6,7,8,9\}$ Find $A \Delta B, B \Delta C, B - (A \Delta C), (A \Delta C) - (B \Delta C)$
2. Attempt any two 10
 1. $f: R \rightarrow R, g: R \rightarrow R$ and $h: R \rightarrow R$ is define as $f(x) = x^2 - 2, g(x) = x + 3$ and $h(x) = x^2$ than Find fog, gof, fof, foh, hof and hoh
 2. Evaluate the following
 1. $\lfloor 11.7 \rfloor$
 2. $\lceil -8.9 \rceil$
 3. $ABS(-25.4)$
 4. $INT(-9.27)$
 5. $49 \pmod{7}$
 3. Let a and b be a positive integer and suppose Q is defined recursively as follows
$$Q(a,b) = \begin{cases} 5 & \text{if } (a < b) \\ Q(a-b, b+2)a + & \text{if } (a \geq b) \end{cases}$$

then find
 1. $Q(2,7)$
 2. $Q(5,3)$
 3. $Q(15,2)$
3. Define the Following Terms 05
 1. Power set
 2. Singleton set
 3. Disjoint set
 4. Equal function
 5. Injective Function

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Understanding India - MS23IKSBCA-105

Total Marks :25 **Time : 2 Hours**

- | | | |
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| 1. | Answer the following (Any Two) | 10 |
| | 1. Explain about Vedic age. | |
| | 2. Explain about Growth and development of Indian Literature | |
| | 3. Explain about Physical features of India | |
| 2. | Answer the following (Any Two) | 10 |
| | 1. Explain about Fundamental rights | |
| | 2. Explain about any one Leader of India's freedom struggle | |
| | 3. Explain about Indian Constitution | |
| 3. | Answer the following (Any Two) | 05 |
| | 1. List out Five Great Vows in Jainism | |
| | 2. Write full form of AIIMS, IISC | |
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