



MBC-003-1041002 Seat No. _____

B. Sc. (IT) (Sem. I) (CBCS) Examination

November / December – 2016

**CS - 02 : Problem Solving Methodologies &
Programming in C**

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Q-1(A) Attempt following questions** **4**
1. What is Identifier?
 2. What is high level language?
 3. What is the use of compiler?
 4. Write name of primary data types.
- Q-1(B) Attempt any one** **2**
1. Explain explicit type casting
 2. Explain relational operator
- Q-1(C) Attempt any one** **3**
1. Explain keyword.
 2. Difference between compiler and interpreter
- Q-1(D) Attempt any one** **5**
1. What is Variable?
 2. Explain data types available in C.
- Q-2(A) Attempt following questions** **4**
1. What is the Syntax of ternary operator?
 2. write name of conditional statements available in C
 3. What is the syntax of do.. while loop?
 4. write name of jumping statements available in C
- Q-2(B) Attempt any one** **2**
1. Explain simple if.
 2. What is loop?
- Q-2(C) Attempt any one** **3**
1. Explain for loop.
 2. Explain break statement

Q-2(D) Attempt any one	5
1. Write a program to check entered number is Armstrong or not?	
2. Explain switch case with example	
Q-3(A) Attempt following questions	4
1. What is Header file	
2. Write two function name of ctype.h header file.	
3. Explain strcpy().	
4. Definition: recursion	
Q-3(B) Attempt any one	2
1. Write any four names of mathematical library functions.	
2. Explain return keyword	
Q-3(C) Attempt any one	3
1. Explain actual argument and formal argument	
2. Difference between call by value and call by reference.	
Q-3(D) Attempt any one	5
1. What is pointer? Write down advantages of pointer	
2. What is UDF? Explain Two Types of UDF	
Q-4(A) Attempt following questions	4
1. Explain union keyword	
2. What is string?	
3. List out types of array	
4. How to declare single dimensional array? Draw memory allocation of it	
Q-4(B) Attempt any one	2
1. Explain typedef	
2. Explain memory structure of character array.	
Q-4(C) Attempt any one	3
1. Difference between structure and union.	
2. Explain structure with pointer	
Q-4(D) Attempt any one	5
1. What is array? Explain Two dimensional array with example	
2. Write a program to sort array.	
Q-5(A) Attempt following questions	4
1. What is pointer variable?	
2. How to open binary file?	
3. Explain NULL.	
4. Which function is used to close file?	

- Q-5(B) Attempt any one** **2**
1. What are the uses of a pointer?
 2. Difference between write and append mode
- Q-5(C) Attempt any one** **3**
1. Explain fprintf() and fscanf()
 2. Write a program to read content from file.
- Q-5(D) Attempt any one** **5**
1. Explain dynamic memory allocation.
 2. Write a program to copy content of one file into another file.
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