

17212

14115

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Assume suitable data, if necessary.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any TEN of the following: 20
- List the formatted input and output instructions.
 - Give the syntax of do-while statement.
 - Syntax to declare two Dimensional array.
 - Differentiate between call by value and call by reference.
(Any two points)
 - Define pointer and declaration of pointer.
 - Write any four operators in C.
 - State different data types in C.

P.T.O.

- h) Write output of foll program.

```
void main ( )  
{ int i = 10, * p ;  
  p = & i ;  
  print f ("Value is":-, * p);  
}
```

- i) Explain pre-increment and post increment operator.
j) Give syntax of switch-case statement.
k) Give syntax of strlen () function.
l) Explain initialization of structure.

2. Attempt any FOUR of the following:

16

- a) Write program to display following

```
★ ★ ★ ★  
★ ★ ★  
★ ★  
★
```

- b) What is array? How to declare and initialize array? Explain.
c) Explain any two string functions.
d) Explain the recursive functions with example.
e) Distinguish between variable and constant.
f) Explain ‘*’ and ‘&’ operators used with pointers.

- 3. Attempt any FOUR of the following:** **16**
- a) Write program to reverse the number 1234 (i.e. 4321) using function.
 - b) Explain structure in C with suitable example.
 - c) Write a program to find the length of the string.
 - d) Explain use of if else statement.
 - e) Write a program to accept ten members ir and print average of it.
 - f) Write program to find whether a number is even or odd.
- 4. Attempt any FOUR of the following:** **16**
- a) State use of increment and decrement operators with examples.
 - b) Explain initialization of one dimensional of array.
 - c) Explain pointer arithmetic with example.
 - d) Explain pointer expressions. Explain meaning of (* pl) ++ with example.
 - e) Differentiate while and do while statement.
 - f) What is function prototype? Explain with example.

- 5. Attempt any FOUR of the following: 16**
- a) Write program to read two strings and find whether they are equal or not.
 - b) Describe use of break and continue statement with example.
 - c) Write program to determine the string is palindrome or not.
 - d) Explain concept of Array of characters with example.
 - e) Explain No-Argument-No-Return value function type with example.
 - f) Explain problem - solving techniques in detail.
- 6. Attempt any FOUR of the following: 16**
- a) Write program to sum all the odd numbers between 1 to 20.
 - b) Write syntax of declaration of function with example.
 - c) Write program to accept 10 numbers in array and arrange them in ascending order.
 - d) Write program to give the factorial of a number.
 - e) Explain two dimensional array with example.
 - f) Explain any two logical operators with example.
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