

2017

Time : 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from **all** the Groups are directed.

Group – A

(Compulsory)

1. State whether the following statement is **True** or **False**: 1x15=15
 - a) Declaration of variables can be done anywhere in the program.
 - b) Signed variable can increase the maximum positive range.
 - c) Stdio.h is used to store the source code of the program.
 - d) A C function can return only one value.
 - e) The main () is a user defined function.
 - f) An array need not be declared before being used.
 - g) Arithmetic operators can be applied to string variables.
 - h) A String Hello World can be read using scanf().
 - i) Array name can be used as a pointer.
 - j) On 32 – bit system, Integer variable is allocated 4 bytes.
 - k) A struct type is a primitive data type.

- l) C permits nested unions.
- m) 3GLs are procedural languages.
- n) Keywords are case sensitive.
- o) Void is a data type in C.

Group – B

Answer any **five** questions of the following: 4x5=20

2. What do you understand by identifiers and keywords?
3. Write a short note on the basic data types that the C language supports.
4. Differentiate between type casting and type conversion.
5. Define a Function. Why are they needed?
6. How is an array represented in memory?
7. What are decision control statements? Explain in detail.
8. Write a program to find the largest of three numbers using ternary operator.
9. Write a program to print the reverse of a number.
10. Give the advantages of pointers.

Group – C

Answer any **five** questions of the following: 7x5=35

11. Give a brief description of generation of Programming Languages. Highlight the advantages and disadvantages of languages in each generation.
12. Explain with an example how structures are initialized.
13. Differentiate between malloc(), calloc(), and realloc().
14. Write a program to find out the day for a given date.
15. Write a program to calculate square root of a number.

16. What are decision control statements? Explain in detail.
17. Differentiate between Syntax errors and Logical errors.

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