SN – 400

I Semester B.A./B.Sc. Examination, Nov./Dec. 2017
(Repeater) (Prior to 2013-14) (2011-12 and Onwards)
COMPUTER SCIENCE – I
Computer Fundamentals and C – Programming

Time : 3 Hours Max. Marks : 70

Instruction : *Answer* ***all*** *Sections.*

SECTION – A

I. Answer **any 10** questions. **Each** question carries **1** mark : **(10×1=10)**

1) Who is father of computer ?
2) Convert $215_{(8)}$ to Decimal number.
3) Expand ASCII.
4) Write truth table for AND operation.
5) What is function of ENCODER ?
6) What is difference between register and flip flop ?
7) List any two addressing modes.
8) What is cache memory ?
9) Mention the different types of software.
10) Define algorithm.
11) What do you mean by type casting ?
12) What is nesting ?

SECTION – B

II. Answer **any five** questions. **Each** question carries **three** marks : **(5×3=15)**

13) Explain switch statement.
14) Convert $(95)_{10}$ to binary number system and Hexadecimal number system.
15) List advantages of High level language.
16) Write a flow-chart to find the largest of 2 numbers.

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17) Explain sizeof( ) operator.

18) Explain ternary operator.

19) What is function ? Mention the various types of functions.

SECTION – C

III. Answer **any 5** questions. **Each** question carries **7** marks : (5×7=35)

20) Explain Block diagram of computer.

21) Write a C program to search given element in an array.

22) Write a program to read two no. and print quotient and remainder.

23) What is looping ? Explain for loop.

24) What is control structure in 'C' ? Explain any one form of if statement.

25) Prove Demorgan's theorems with the help of truth table.

26) Explain the construction and working of an hard disk.

27) Write a C program to find sum of two matrices.

SECTION – D

IV. Answer **any 1** question. It carries **10** marks : (1×10=10)

28) What is a string ? Explain the various operations performed on strings.

29) What is a Flip-Flop ? Explain the construction and working of any one Flip-Flop.
