



22131/A 310

Reg. No.

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**I Semester B.C.A. 2 Degree Examination, November/December 2016
(Repeaters)
COMPUTER CONCEPTS AND 'C' PROGRAMMING**

Time : 3 Hours

Max. Marks : 80

Instruction : Answer the questions of **all three** Sections.

SECTION – A

I. Answer **any ten** questions. **Each** question carries **2** marks : **(10×2=20)**

- 1) What is Computer ?
- 2) What is volatile memory ?
- 3) Mention the merits and demerits of C-program.
- 4) List out the different types of C-tokens.
- 5) What is variable ? Write a syntax to declare variable.
- 6) Convert the following expression to 'C' expression :
 - I) $\log_{10}\left(\frac{x}{y} + c\right)$
 - II) $2p^2 + 3p + 1$.
- 7) Write the syntax for Nested if statement.
- 8) Mention any 4 preprocessor directives.
- 9) What is the use of goto statement ?
- 10) What is an array ?
- 11) Give out the syntax of strcmp() and strlen() functions with an example.
- 12) What is pointer ?

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SECTION – B

II. Answer **any six** questions. **Each** question carries **5** marks : **(6×5=30)**

- 13) Discuss the block diagram of computer with neat diagram.
- 14) Draw and explain various symbols used in flow chart.
- 15) Explain nested loop structure with syntax and example.
- 16) Write a C-program to generate and print first N fibonacci numbers.
- 17) Discuss the unformatted input and output functions.
- 18) Explain the working of impact printer.
- 19) Discuss briefly about switchcase with an example program.
- 20) Write a short note on structure. How structure members are accessed ?

SECTION – C

III. Answer **any three full** questions. **Each** carries **10** marks : **(3×10=30)**

- 21) a) Explain the basic structure of C-program.
b) Discuss basic data types with an examples. **(5×2=10)**
 - 22) Discuss the different types of generations of computer.
 - 23) What is string ? Explain different string handling functions with an example.
 - 24) How do you define two dimensional array ? Write a program to read 2 matrices and compute addition and subtraction of matrices.
 - 25) Explain the various categories of user defined functions.
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