

[46/17]

SEAT No. \_\_\_\_\_

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Sardar Patel University

F.Y.B.C.A. (1<sup>st</sup> Semester) NC- (Old Course) Examination - 2018  
US01CBCA01 || Fundamentals of Computer Programming Using C

Date: 24-10-2018, Wednesday

Time: 10.00 am to 01.00 pm

Total Marks: 70

**Q.1 Answer the following questions.**

[10]

- 1 The step by step solution of any problem is known as \_\_\_\_\_.  
a) Algorithm b) Hardware c) Flowchart d) Software
- 2 What is the standard decision symbol for a flowchart?  
a) circle b) lozenge c) diamond (d) square
- 3 In which section consists of Header files.  
a) main() b) Definition c) Documentation d) Link Section
- 4 The value can not be changed during program execution is known as \_\_\_\_\_.  
a) Variable b) Constant c) Operator d) None of these
- 5 In switch statement as an expression we can pass \_\_\_\_\_ type of value.  
a) Only integer b) Only character c) integer or character d) none of these
- 6 \_\_\_\_\_ loop execute at least once.  
a) while loop b) for c) if d) do..while
- 7 A parameter list in function can be separated by \_\_\_\_\_.  
a) Question marks b) Exclamatory marks c) Commas d) None of these
- 8 strcmp("Computer", "computer") will return \_\_\_\_\_.  
a) 32 b) 0 c) 10 d) -32
- 9 gets () function is available in \_\_\_\_\_ header file.  
a) <math.h> b) <conio.h> c) <stdio.h> d) All of above
- 10 \_\_\_\_\_ format specifier used for floating data type.  
a) %d b) %e c) %c d) %f

**Q.2 Explain following in brief. (Attempt any 10)**

[20]

- 1 List characteristics of an algorithm.
- 2 What is an Editor? Give 3 examples of Well Know Editors.
- 3 Explain in brief: Assembler.
- 4 Explain conditional operator with syntax and example.
- 5 Write Rules of variable name.
- 6 Explain simple if statement in brief.
- 7 Explain in brief: break.
- 8 Explain exit controlled loop statement in brief.
- 9 Explain isdigit() function in brief.
- 10 Write down advantages of UDF.
- 11 List components of user defined function.
- 12 Explain strlen() function in brief.

(1)

(P.T.O)

- Q.3 A.** What is flowchart? List and explain symbol used in drawing a flowchart. [07]  
**B.** Write a note on Language Generation. [03]

OR

- Q.3 A.** What is Computer Language? Explain Machine level and Assembly language in detail. [07]  
**B.** Write difference between Compiler and Interpreter. [03]

- Q.4 A.** Explain printf() and scanf() function with syntax and example. [05]  
**B** Draw and explain Basic Structure of C program. [05]

- Q.4 A.** What is an Operator? Explain Assignment & Relational Operators with example. [05]  
**B.** Explain Switch statement in detail with proper syntax and example. [05]

- Q.5 A.** What is an Array? List Types of an Array and also Explain initialization and declaration of 1-D array with syntax and Examples. [06]  
**B.** Explain clrscr() and islower() with syntax and example. [04]

OR

- Q.5 A.** What is looping? List entry controlled loops and explain with syntax and proper Example. [06]  
**B.** Explain isupper () and pow() with syntax and example. [04]

- Q.6 A.** What is User-defined Function? Explain categories of user defined function with syntax and example. [10]

OR

- Q.6 A.** What is String? List all string handling function and also explain any three with syntax and example. [10]

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