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[37]

**SARDAR PATEL UNIVERSITY**

**External Examination**

**F Y BCA Semester-I**

**Programming Fundamental Using C (US01CBCA21)**

Date: 22/10/2018, Monday

Time: 10 AM - 01 PM

Total Marks: 70

- Q.1** Choose the most appropriate answer from the given options. Please write option label A, B, C or D clearly against question number. [10]
- (1) C language is \_\_\_\_\_.  
A. High level language    B. Low level language    C. Machine language    D. Assembly language
- (2) \_\_\_\_\_ is a step by step approach to solve any problem.  
A. Algorithm    B. Compiler    C. Process    D. All of these
- (3) \_\_\_\_\_ is an invalid (illegal) variable name.  
A. Total\_marks    B. INT    C. pi    D. int marks
- (4) The \_\_\_\_\_ format specifier is used for integer data type.  
A. %d    B. %f    C. %c    D. %e
- (5) The combination of ? and : is known as \_\_\_\_\_ operator.  
A. Arithmetic    B. Ternary    C. A and B both    D. None of these
- (6) For declaring two-dimensional array \_\_\_\_\_ subscript(s) is/are used.  
A. One    B. Two    C. Three    D. All of these
- (7) '\0' is called \_\_\_\_\_.  
A. \*New line character    B. End-of-String    C. Null character    D. All of these
- (8) In two dimensional array the first subscript specifies number of \_\_\_\_\_.  
A. Rows    B. Columns    C. Elements    D. All of these
- (9) Characters in string are defined in \_\_\_\_\_ quotation marks.  
A. Single    B. Double    C. Triple    D. Multiple
- (10) The \_\_\_\_\_ function can be used for writing the string to the screen.  
A. printf    B. puts    C. A and B both    D. None of these

**Q.2** Attempt ANY TEN questions. [20]

- (A) What is an algorithm? List characteristics of an algorithm.  
(B) Write an algorithm to find whether the given number is odd or even.  
(C) What is difference between interpreter and compiler?  
(D) Explain for loop in brief with example  
(E) Explain short hand operator in brief.  
(F) Write rules for naming variables.  
(G) Explain break statement with example.  
(H) Explain continue statement with example.

(1)

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- (I) Write difference between while loop and do...while loop.
- (J) Explain pow() function.
- (K) Explain the clrscr() function.
- (L) Explain the gets() function.

Q.3 (A) What is flowchart? Explain symbols used to draw flowchart. [06]  
(B) Write a short note on editor. [04]

OR

Q.3 (A) Explain in brief high level language, assembly level language, and machine level language. [06]  
(B) Explain compiler and assembler in brief. [04]

Q.4 What is operator? List all operators and explain them with example. [10]

OR

Q.4 (A) Explain basic structure of C program. [05]  
(B) Explain basic data types used in C language. [05]

Q.5 Define array. Explain 1-D array in detail. [10]

OR

Q.5 Explain all possible if statements with syntax and example. [10]

Q.6 Define string. Explain any four string handling functions with syntax and example. [10]

OR

Q.6 Explain functions of <ctype.h> header file with syntax and example. [10]

\*\*\*\*\*X\*\*\*\*\*

(2)