SARDAR PATEL UNIVERSITY
BCA EXAMINATION, I SEM UNDER (CBCS) (NC) (2016)

Date　　　: 22nd Nov 2018, Thursday　　　　　Time : 02:00pm To 05:00pm
Session　 : Evening　　　　　　　Sub: Fundamental of computer programming using C
Course No : US01CBCA01　　　　　　　　　　　　　　　　Total marks : 70

Q – 1　Multiple Choice Question　　　　　　　　　　　　　　　　　　　[10]

i)　_____ is a step by step approach to solve any problem.
　　a) Algorithm　　　　b) Programming language　　c) Process　　d) Compiler

ii)　What symbol is used to represent output in a flowchart?
　　a) Square　　　　b) Circle　　　　　c) Parallelogram　　d) Rectangle

iii)　Which of the following is problem oriented language?
　　a) High Level Language.　　　　　　b) Machine Language.
　　c) Assembly Language.　　　　　　d) Low level language.

iv)　_____ is a valid variable name.
　　a) Float　　　b) Tot Sum　　　　c) Tot_sum　　　　d) 9sum

v)　In which section consists of Header Files.
　　a) Main　　b) Definition　　c) Declaration　　d) Link Section

vi)　Identified from the following after which statement is required
　　a) FOR　　b) Nested If　　c) Continue　　d) None of These

vii)　In two dimensional array the first subscript is define _____ size.
　　a) Row　　b) Column　　c) Vector　　d) All of above

viii)　A group of character is known as _____.
　　a) String　　　b) Array　　c) Function　　d) All of above

ix)　Ampersand(&) is not required when read the _____ value.
　　a) int　　　b) float　　c) string　　d) All of above

x)　The _____ string function is use to joins two string.
　　a) Strcat()　　b) strlen()　　c) strconcate()　　d) strrev().

Q – 2　Short Answer attempt any ten (Each carry 2 marks)　　　　　　[20]

i)　List languages for all generations.
ii)　What is an algorithm? List Characteristics of an algorithm.
iii)　What is Translator? List all translators.
iv)　Write Rules of variable name
v)　Explain ternary operator with example
vi)　Difference between pre-increment and post-increment operator.
vii)　Write difference between exit and entry controlled loop.
viii)　List out any four mathematical functions
ix)　Explain getch() function.
x)　What is string? List out the operation perform on the string.
xi)　Explain gets() function with syntax and example
xii)　Write the syntax of declaring string in C also give example of it.

Q – 3　a)　What is flow chart? Explain it in details with symbols　　　[06]
**　　　b)　Write note on language generation.　　　　　　　　　　　　[04]**

OR

Q – 3　a)　Explain High Level Language and Assembly Language in detail　[06]
**　　　b)　Write difference between Interpreter and Compiler　　　　　　[04]**

Q – 4　What is operator? Explain different operators with appropriate example.　[10]

OR

Q – 4   Explain IF.. Else and Nested if statement with syntax and example   [10]

Q – 5   a)   Explain while and for loop with syntax and example   [06]
      b)   Explain gets and puts function   [04]

OR

Q – 5   a)   Define array also explain declaration of 1D and 2D array with syntax and example   [06]
      b)   Explain arithmetic operation in character with example   [04]

Q – 6   a)   Explain function declaration and call with syntax and example.   [06]
      b)   Explain return statement with syntax and example. And also explain the return type in C language.   [04]

OR

Q – 6   a)   Define function and explain type of functions used in C with example.   [06]
      b)   Explain command line argument with example   [04]

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