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Seat No. _____

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SARDAR PATEL UNIVERSITY
B.Sc (CA & IT) (SEMESTER-I) EXAMINATION November-2019
November 19, 2019, Tuesday
10:00 a.m. to 01:00 p.m.
US01CIIT21 (PS01CIIT21) (Computer Programming Using C)

Marks: 70
[10]

Q.1 Multiple Choice Questions

- 1 C language is _____
[A] High level language [B] Machine language
[C] Assembly language [D] Low level language
- 2 An integer datatype requires _____ bytes for storage.
[A] 4 [B] 2
[C] 6 [D] 8
- 3 _____ statement terminates the execution of loop.
[A] continue [B] break
[C] switch [D] none of these
- 4 _____ statement is used branch unconditionally from one point to another in the program.
[A] switch [B] if
[C] break [D] goto
- 5 '\0' is _____
[A] Null Character [B] Character value
[C] Variable [D] Symbolic Constant
- 6 strcmp () function is used to _____ two strings.
[A] Concat [B] Join
[C] Compare [D] All of above
- 7 _____ function count and return the number of character in a string
[A] strcpy() [B] strlen()
[C]strupr() [D] strrev()
- 8 _____ is the user defined function.
[A] main () [B] printf ()
[C] scanf () [D] sqrt ()
- 9 A function can be surrounded by _____
[A] parentheses [B] square brackets
[C] queerly brackets [D] none of these
- 10 If the function are declare in the global declaration section the prototype is referred as _____prototyped.
[A] global [B] local
[C] formal [D] none of these

①

(PTO)

Q. 2 Short Question (Any TEN)

[20]

1. What is an algorithm? List down rules for writing an algorithm.
2. What is Translator? List all translators.
3. Explain type conversion in brief.
4. Explain purpose of printf() statement with example.
5. Differentiate between break and continue
6. Explain goto statement in brief with example.
7. What is string? List out the operation perform on the string.
8. Explain islower () and isupper () function
9. Explain sqrt() and isdigit() function
10. Write the advantages of function.
11. State syntax and purpose of return statement
12. Write a short note on recursive function in detail.

Q. 3

[A] What is Flowchart? Also explain symbols used to draw flowchart.

[5]

[B] Explain data types available in C Language.

[5]

Q. 3

OR

[A] Explain Basic structure of C Program in detail.

[5]

[B] Write a short note on arithmetic and relational operators used in C Language.

[5]

Q. 4

[A] Explain exit-controlled loop in detail with example.

[5]

[B] Explain switch statement in detail.

[5]

Q. 4

OR

[A] Explain input and output statement with example.

[5]

[B] Explain nested if detail.

[5]

Q. 5

[A] Explain initialization of 1D array with syntax and example.

[5]

[B] Explain following function with syntax and example.

[5]

1. strcpy() 2. strrev () 3. strcat()

Q. 5

OR

[A] Explain initialization of 2D array with syntax and example.

[5]

[B] Explain gets() and puts() function with syntax and example.

[5]

Q. 6 What is function? Explain all categories of function.

[10]

OR

Q. 6 Explain scope, visibility and lifetime of a variable.

[10]

—X—
②