

Sig. of Supdt.

KT-XII-14(A)
COMPUTER SCIENCE - (Part-II)

Roll No.

Fig. No.....

Fig. No.....

Time Allowed: 3 Hrs.

Total Marks: 70

Note: There are three sections of this paper, A, B, & C. Carefully read the instructions for each section and attempt accordingly.

Time Allowed: 20 Mins.

SECTION - A

Total Marks : 13

Note: Use this sheet for this section. No. mark will be awarded for cutting, erasing or over writing.

Q. 1 Insert the correct option (a, b, c, d) in the empty box opposite to each part. Each part carries one mark. Any kind of Mark Left / Written is strictly prohibited. Mobile Phone is strictly prohibited in Examination Hall.

- i) A DBMS in which relationships are treated as tables is called ☐
- (a) Hierarchical DBMS (b) Network DBMS (c) Procedural DBMS (d) Relational DBMS
- ii) Which of the following objects is interface object? ☐
- (a) Form (b) Table (c) Query (d) Field
- iii) SQL stands for ☐
- (a) Self Query Language (b) Structural question language (c) Structural Query Language (d) Self Question Language
- iv) Which of the following is a DBMS software? ☐
- (a) MS-World (b) MS-Access (c) Visual Basic (d) C-Language
- v) Repeated groups are eliminated in which of the following? ☐
- (a) 1st NF (b) 2nd NF (c) Functional Dependency (d) (a) & (b)
- vi) MS-Access saves the data base with the extension ☐
- (a) .mdb (b) .msdb (c) .madb (d) .macc
- vii) The shortcut for running C Program is ☐
- (a) F9 (b) Ctrl+F9 (c) Alt+F9 (d) Ctrl+R
- viii) The float data type reserves bytes in RAM. ☐
- (a) 1 (b) 2 (c) 4 (d) 8
- ix) Which function is used to print the result on the screen? ☐
- (a) Printf (b) Scanf () (c) Getch () (d) Pow ()
- x) operator increases the value of a variable by 1. ☐
- (a) + (b) ++ (c) += (d) Sum
- xi) A loop which never ends is called ☐
- (a) Nested loop (b) Reverse loop (c) Outer loop (d) Infinite loop
- xii) There are types of function in C-Language ☐
- (a) 2 (b) 3 (c) 4 (d) 1
- xiii) The expression $5 * 2 / 6 + 15 \% 4$ has the value equal to ☐
- (a) 4.66 (b) 4 (c) 0 (d) 2

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Time Allowed : 2:40 Hrs.

Section – B

Marks : 36

Note: Mobile Phone is strictly banned in Examination Hall.

Q. 2 Write a short answer of any NINE of the following parts. Each part carries equal marks.

- (i) What is DBMS? Write any four characteristics of it?
- (ii) Differentiate between data security and data integrity?
- (iii) What is meant by logical records and physical records?
- (iv) What is normalization? Briefly explain 2nd normal form?
- (v) Which data types are used in MS-Access? Briefly discuss their purpose?
- (vi) What is translation software? Also differentiate between compiler and interpreter?
- (vii) Briefly discuss int, float and char data type?
- (viii) Differentiate among getch(), getche() and getchar function?
- (ix) Write syntax of for, while and do-while loop?
- (x) Write syntax of else if & switch statement?
- (xi) What is importance of using functions?
- (xii) Differentiate between local and global variables?

Section – C

Marks : 21

NOTE: Attempt any THREE questions. Each question carries equal marks.

- Q. 3: What is conventional file systems? What are its demerits?
- Q. 4: What is data integrity? Describe in detail various integrity constraints in database. Explain with examples?
- Q. 5: a) What is switch statement? Discuss it.
b) Write a program that ask for the radius circle and find the area of circle?
- Q. 6: a) What is loop? Discuss while loop in detail?
b) Write a program that creates a function which calculates the square of different numbers given by the user?

*****END*****