

COMPUTER APPLICATIONS

(Theory)

(712)

Time : 2 Hours]

[Maximum Marks : 40

Note : All questions are compulsory and carry marks as indicated against each question.

1. Fill in the blanks :

$\frac{1}{2} \times 15 = 7\frac{1}{2}$

- (a) The maximum field width of a character field is —.
- (b) — is a graphical representation of a system's data and how the process transforms the data.
- (c) — describes the data flow for a data processing system.
- (d) The — information system is based on the presumption that the data and information are used by more than one system in an organization.
- (e) The — is a menu-driven RDBMS.
- (f) The — menu is added when you work with query.
- (g) — is an arrangement of displaying records in a certain order of the data field so that records can be accessed very fast.
- (h) — is a shortcut key to run a form.
- (i) — is a command to open a table in FoxPro.
- (j) — command in FoxPro is used to reorder the records in a table.
- (k) The name of the table always appears in the —.
- (l) — type of operators required two operands to work on.
- (m) The result of the — logical operator will be true only if both operands are true.
- (n) — function in C returns the square root of a given number.
- (o) — is a conversion character in C means the type of data item is decimal integer.

2. Write True (T) or False (F) :

$\frac{1}{2} \times 15 = 7\frac{1}{2}$

- (a) In C language variable declaration is optional.
- (b) getchar() prints or displays a single character.
- (c) && is an example of logical operator.
- (d) Function prototyping is optional in C.
- (e) You cannot customize the report created through Report Wizard.
- (f) Delete command in FoxPro is used to remove the records mark for deletion permanently from the table.
- (g) Main is a valid identifier name.
- (h) The extension given to a query file is .qpr.
- (i) A float datatype occupies 4 bytes in memory.
- (j) In pilot run the new system is run with the data from one or more of the previous periods for the whole or part of the system.
- (k) Ctrl + Z is the keyboard shortcut to append records in FoxPro.
- (l) You can select more than one field for the sorting order.
- (m) Fixed capital is not same over a longer period and is required only in the last stage.
- (n) The 'debug' window allows you to watch program execution.
- (o) In C language uppercase letters and lowercase letters produce different output.

3. (a) Write short notes on the following :

$1 \times 3 = 3$

- (i) Header file
 - (ii) Structure
 - (iii) Top-down programming approach
- (b) Write a program in Visual FoxPro to swap the value of two given numbers—A and B.

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4. Write a program in C language to input a number from the user and print the number in a reverse order. For example, input is 123, output should be 321. 5

Or

Write a program in C language to input a string and check the given string whether it is palindrome or not. For example, input is MALAYALAM, output is palindrome.

5. Find the output of the following program, if the input is (a) 19; (b) 99 and (c) 70 : 3

```
void main( )
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    if (n %3 == 0 || n<50)
    {
        ++n;
        printf("%d" &n)
    }
    else
    {
        --n;
        printf("%d", &n)
    }
    getch( );
}
```

6. Differentiate between i++ and ++i. Explain with an example. 3

7. Explain the following : 2×3=6

- (a) Client/server system
- (b) Recursion
- (c) Constants

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