AV–1680

B.Sc. (Part—I) Semester—I Examination

COMPUTER APPLICATIONS (Voc.) (New)

(Basic of Computer and Structured Programming)

Time : Three Hours]　　　　　　　　　　　　　　　　　　　　[Maximum Marks : 80

N.B. :— (1) **All** questions are compulsory.

　　　　(2) Question No. 1 carries 8 marks and all other questions carry 12 marks each.

　　　　(3) Assume suitable data wherever necessary.

1.　(A)　Fill in the blanks :

　　　　(i)　A hard disk is divided into tracks which is further subdivided into _____ .

　　　　(ii)　A computer can not 'boot' if it does not have the _____ .

　　　　(iii)　Array subscript in C always start at _____ .

　　　　(iv)　Character constants should be enclosed between _____ .　　　　2

　　(B)　Choose the correct alternative and rewrite the following :

　　　　(i)　_____ is a type of memory circuitry that holds computers startup routines.

　　　　　　(a)　RIM　　　　　　　　　　(b)　RAM

　　　　　　(c)　ROM　　　　　　　　　　(d)　Cache memory

　　　　(ii)　Which is considered as direct entry input device ?

　　　　　　(a)　Optical scanner　　　　　(b)　Keyboard

　　　　　　(c)　Light pen　　　　　　　　(d)　All of the above

　　　　(iii)　Which one is not a reserve keyword in C language ?

　　　　　　(a)　Auto　　　　　　　　　　(b)　Var

　　　　　　(c)　Case　　　　　　　　　　(d)　Register

　　　　(iv)　Prototype of a function means _____ .

　　　　　　(a)　Name of function　　　　　(b)　Output of function

　　　　　　(c)　Declaration of function　　(d)　Input of a function　　　　2

　　(C)　Answer the following in **one** sentence each :

　　　　(i)　Give the general syntax to declare one dimension array.

　　　　(ii)　What is function ?

　　　　(iii)　What is Booting ?

　　　　(iv)　What is the use of getchar ( ) function ?　　　　4

2.　(A)　Explain Mini and Micro computer with its characteristics.　　　　6

　　(B)　Explain the following :

　　　　(i)　RAM

　　　　(ii)　TFT

　　　　(iii)　EPROM.　　　　6

OR

3.　(A)　Describe the following in brief :

　　　　(i)　Cache memory

　　　　(ii)　Monitor

　　　　(iii)　Pen drive.　　　　6

　　(B)　Explain secondary storage devices with its functions.　　　　6

WPZ—8248　　　　　　　　　　　1　　　　　　　　　　　(Contd.)

4. (A) Explain the following functions of OS :
        (i)   I/O management
        (ii) Process management.   6
    (B) Describe the following :
        (i)   Memory management
        (ii) Desktop and Icons in Windows XP.   6

OR

5. (A) Explain Operating System with its functions.   6
    (B) What are the features of Windows XP ? Explain.   6

6. (A) Explain the structure of C programs with advantages of C language.   6
    (B) Explain Bitwise Operators with suitable example.   6

OR

7. (A) What are Constants ? Explain types of constants with example.   6
    (B) Explain ;
        (i)   Relational Operator
        (ii) Logical Operator.   6

8. (A) Explain :
        (i)   getch ( )
        (ii) putch ( )
        (iii) puts ( ).   6
    (B) Differentiate between While and Do-Wile statement.   6

OR

9. (A) Explain if-else statement with example.   6
    (B) Write a program to print given pattern using nested loop :

             1
             2   3
             4   5   6
             7   8   9   10   6

10. (A) Explain initialisation and declaration of Two Dimensional Array with example.   6
    (B) What is Pointer ? Explain pointer and address arithmetic with example.   6

OR

11. (A) Explain call by value and call by reference with example.   6
    (B) Explain pointer to functions with example.   6

12. (A) Explain :
        (i)   fputs ( )
        (ii) fread ( )
        (iii) fwrite ( ).   6
    (B) Write a program to display the contents of file on monitor.   6

OR

13. (A) Explain the following file operations :
        (i)   fgets ( )
        (ii) fscanf ( )
        (iii) fprintf ( ).   6
    (B) Explain :
        (i)   feof ( )
        (ii) ferror ( ).   6