

B.Sc. (Part—I) Semester—I Examination
COMPUTER APPLICATION (Vocational) (NEW)
(Basics 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 :

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(i) Correcting errors in a program is referred to as _____ .

(ii) _____ header file is essential for using strcmp() function.

(iii) Explicit type conversion is known as _____ .

(iv) The operator && is an example for _____ operator.

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

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(i) The process of copying files to a CD-ROM is known as :

(a) Burning

(b) Digitizing

(c) Zipping

(d) Ripping

(ii) The storage subsystem in a microcomputer consists mainly of _____ or _____ media with varying capacities.

(a) Memory or Video

(b) Magnetic or Optical

(c) Optital or Memory

(d) Video or Magnetic

(iii) Name the loop that executes at least once :

- (a) For loop
- (b) Iterative If
- (c) Do_While
- (d) While

(iv) A pointer that is pointing to NOTHING is called _____ .

- (a) Void pointer
- (b) Dangling pointer
- (c) NULL pointer
- (d) WILD pointer

(C) Answer the following in **one** sentence : 4

- (i) Give the examples of impact and non-impact printers.
- (ii) Which are formatted input output functions ?
- (iii) What is the main difference between Structure and Union ?
- (iv) What is function prototype ?

2. (A) Explain the following terms : 6

- (i) PROM
- (ii) CD
- (iii) DVD.

(B) Explain various types of computers with block diagram of computer. 6

OR

3. (A) Explain the following : 6

- (i) Scanner
- (ii) LCD
- (iii) Pendrive.

- (B) Describe the following : 6
- (i) Touch Screen
 - (ii) Light Pen.
4. (A) Explain file management in detail. 6
- (B) Explain : 6
- (i) Memory management
 - (ii) Booting process.

OR

5. (A) What are the functions of operating system ? Explain. 6
- (B) Explain : 6
- (i) Taskbars
 - (ii) Icons.
6. (A) Explain : 6
- (i) Identifiers
 - (ii) Keywords
 - (iii) Character sets.
- (B) Describe symbolic constants with example. 6

OR

7. (A) Define operator. Explain various types of operators. 6
- (B) Explain increment and decrement operator with example. 6
8. (A) Explain formatted I/O functions with example. 6
- (B) Explain switch () statement with example. 6

OR

9. (A) Describe Break and Continue statement with example. 6
(B) Write a program to convert lower case character into uppercase. 6
10. (A) Explain various string functions with example. 6
(B) What is function prototype ? Explain call by value with example. 6

OR

11. (A) Explain structure with suitable example. 6
(B) Write a program in 'C' for matrix addition. 6
12. (A) Explain : 6
(i) fgetc ()
(ii) fputc ()
(iii) fscanf ().
- (B) Describe following file operations : 6
(i) fgets ()
(ii) fputs ()
(iii) fprintf ().

OR

13. (A) Write a program to illustrate the use of fgetc () and fputc (). 6
(B) Explain following file operations : 6
(i) fread ()
(ii) fwrite ()
(iii) ferror ().