

FIRST SEMESTER B.VOC. DEGREE EXAMINATION, APRIL/MAY 2015

(CUCBCSS-UG)

Software Development

SDC 1IT 01—FUNDAMENTALS OF COMPUTER AND PROGRAMMING IN C

Time : Three Hours

Maximum : 80 Marks

Part A*Answer all questions.*

1. Which access method is used for obtaining data from RAM ?
(a) Direct. (b) Sequential.
(c) Random. (d) All of the above.
2. Which one of the following is a valid identifier ?
(a) _ident. (b) auto.
(c) bignumber. (d) g42277.
3. What is the final value of x when the code
int x
for (x = 0 ; x < 10 ; x++) is executed ?
(a) 10. (b) 9.
(c) 0. (d) 1.
4. Which operator is used to connect structure name to its member name ?
(a) Dot operator. (b) & operator.
(c) → operator. (d) > operator.
5. What is the output of the following code ?
include < stdio.h >
void main()
{
int i = 90, *p = &
void fun(int *) ;

Turn over

```

fun(&i) ;
printf("%3d", *p) ;
}
void fun(int *p)
{
int j = 3;
P = &j ;
printf("%d", *p) ;
}

```

- (a) 3 90. (b) 90.
(c) 10 0. (d) None of the above.
6. CMOS stands for _____
 7. Why and when we use #include directive ?
 8. A one dimensional array use only _____ to represent list of items.
 9. List any *four* library function in C.
 10. Write the syntax of fopen() statement and fclose() statement.

(10 x 1 = 10 marks)

Section B

Answer any **eight** questions, not exceeding a paragraph of 50 words.

11. Write a note about comparison between RAM and ROM.
12. What is MICR ? Explain with two disadvantages.
13. Compare and contrast compilers and interpreters.
14. What do you mean by a global variable ?
15. What are the field specification characters used in C ?
16. What do you mean by type conversion in C ?
17. What are the different types of loop statements used in C ?
18. Explain the structure of a C program.
19. How to declare a variable that will hold string values ?
20. Explain about the scope and life time of a variable in a function.
21. What is macro with parameters ?
22. How will you declare and initialize a pointer ?

(8 x 2 = 16 marks)

Section C

*Answer any **six** questions, in a page of 50 words.*

23. Write a note about magnetic disk.
24. Explain about video controllers.
25. Write a program in C to calculate the perimeter and area of a rectangle.
26. Write a program in C to find whether a year is leap year or not.
27. Explain about different string manipulation functions.
28. Write a program in C to swap two variables using function.
29. Explain different storage classes.
30. Explain about different file operation functions available in C.
31. Explain dynamic memory allocation function in detail.

(6 x 4 = 24 marks)

Section D

*Answer any **two** questions, not exceeding four pages.*

32. Explain about various input output devices used in computers.

Or

33. For what purpose algorithm and flowcharts are used? Explain about each of them with an example.
34. What is nesting of functions? What is meant by recursion? Write a program to demonstrate recursion with proper explanation.

Or

35. Write an example program in C to create a text FILE, read some text, write the content and re-write the FILE.

(2 x 15 = 30 marks)