

FIRST SEMESTER B.VOC. DEGREE EXAMINATION, NOVEMBER 2018

Software Development

SDC1 IT 01—FUNDAMENTALS OF COMPUTER AND PROGRAMMING IN C

Time : Three Hours

Maximum : 80 Marks

Section A*Answer all questions.**Each question carries 1 mark.*

1. A computer program that converts assembly language program to machine language program is _____
 - (a) Compiler.
 - (b) Interpreter.
 - (c) Assembler.
 - (d) Comparator.
2. Which one of the following is a valid identifier ?
 - (a) _ident
 - (b) Auto.
 - (c) Bignumber.
 - (d) g42277.
3. Switch statement is a _____ decision making statement.
4. Which of the following is a collection of different data types ?
 - (a) Structure.
 - (b) Pointer.
 - (c) Array.
 - (d) None of these.
5. What is the output of the following code ?

```
#include <stdio.h>
void main()
{
    int i=90, *p=&i;
    void fun(int *);
    fun(&i);
    printf("%3d", *p);
}
void fun(int *p)
```

Turn over

```
{
    int j=3;
    p=&j;
    printf("%d", *p);
}
```

- (a) 3 90. (b) 90.
(c) 10 0. (d) None of the above.

6. WORM stands for_____.
7. Write the syntax of putchar and puts in C.
8. A one dimensional array use only _____ to represent list of items.
9. Write the syntax of creating a Union in C.
10. Write the syntax to open a file.

(10 × 1 = 10 marks)

Section B

*Answer any **eight** questions, not exceeding a paragraph of 50 words.
Each question carries 2 marks.*

11. What is bubble memory ?
12. What is MICR ? Explain with two disadvantages.
13. Distinguish between system software and application software.
14. Explain about conditional operator.
15. What are the field specification characters used in C ?
16. Write the syntax and flowchart of if... else control statement.
17. What do you mean by modularization ?
18. Explain the structure of a C program.
19. Define a user defined function.
20. What is a compiler control directive ?
21. What is macro with parameters ?
22. What are the built-in functions for file manipulation ?

(8 × 2 = 16 marks)

Section C

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

Each question carries 4 marks.

23. Explain about evolution of computers.
24. Explain about video controllers.
25. Write a program in C to find the largest and smallest among three numbers.
26. Explain bit-wise operators with examples.
27. Explain about different string manipulation functions.
28. Differentiate between formal parameters and actual parameters with example.
29. Explain the concept of recursion with an example program.
30. Explain about different file operation functions available in C.
31. Explain about different storage classes available in C.

(6 × 4 = 24 marks)

Section D

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

Each question carries 15 marks.

32. Write an essay about various computer languages available today.

Or

33. For what purpose algorithm and flowcharts are used ? Explain about each of them with an example.
34. Explain with suitable example, the operator precedence and associativity of various operators available in C.

Or

35. Write a program in C to create a simple calculator. Use user defined functions to implement various operations.

(2 × 15 = 30 marks)