**A** **Reg. No. :** | | | | | | | | | | |

## Question Paper Code: 51207

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

First Semester

Computer Science Engineering

15UCS107 - COMPUTER PROGRAMMING

(Regulation 2015)

Answer All Questions

PART A - (10x 1 = 10 Marks)

1. A CPU contains CO1-R

   (a) a card reader and a printing device

   (b) an analytical engine and a control unit

   (c) a control unit and an arithmetic logic unit

   (d) an arithmetic logic unit and a card reader

2. Which of the following is not an advantage of a flowchart? CO1-R

   (a) Better Communication (b) Efficient Coding

   (c) Systematic testing (d) Improper documentation

3. What is the first stage of the compilation process? CO2-R

   (a) Pre-Processing (b) Post Processing (c) Compilation (d) Linking

4. Out of fgets() and gets() which function gets input from the user? CO2-R

   (a) gets() (b) fgets() (c) both (a) and (b) (d) None

5. What will be the output of following program ? CO3-R

```
#include <stdio.h>
void main()
{
   if(!printf(""))
      printf("Okkk");
   else
      printf("Hiii");
}
```

   (a) Okkk (b) Hiii (c) Error (d) None

6. What is the output of the given code? CO3-R

```
counter = 1
while counter < 11
 write counter
  counter = counter + 1
end
```

(a) Prints the number from 1 to 10 (b) Prints the number from 1 to 11

(c) Prints the number from 2 to 10 (d) Infinite loop

7. If the two strings are identical, then strcmp() function returns CO4-R

(a) -1 (b) 1 (c) 0 (d) Yes

8. In C, static storage class cannot be used with: CO4-R

(a) Global variable

(b) Function parameter

(c) Function name

(d) Local variable

9. Which of the following does not initialize ptr to null (assuming variable declaration of a as int a=0)? CO5-R

(a) int *ptr = &a;

(b) int *ptr = &a – &a;

(c) int *ptr = a – a;

(d) All of the mentioned

10. Which of the following are themselves a collection of different data types? CO5-R

(a) String (b) Structures (c) Char (d) Array

PART – B (5 x 2= 10Marks)

11. What are the languages used in computer generations. CO1-R

12. List out some of the rules used for 'C' programming. CO2-R

13. What is the difference between if and while statement? CO3-R

14. Define Strings with example. CO4-R

15. What is a Pointer? How a variable is declared to the pointer? CO5-R

PART – C (5 x 16= 80Marks)

16. (a) Draw a block diagram to illustrate the basic organization of Computer system and explain the function of various units. CO1- U (16)

Or

| | | | | |
|---|---|---|---|---|
| | (b) | Write the algorithm, Pseudo code and Draw the flow chart for the following problems<br>(i) To find the Largest of three numbers.<br>(ii) To find the given year is a leap year or not. | CO1- U | (16) |
| 17. | (a) | Explain in detail about Operators in C with suitable example. | CO2- U | (16) |
| | | Or | | |
| | (b) | Explain in detail about formatted and unformatted input and output statements. | CO2- U | (16) |
| 18. | (a) | Explain about the various decision making statements in 'C' language. | CO3- U | (16) |
| | | Or | | |
| | (b) | Write short notes on the following:<br>(i) 'while' loop<br>(ii) 'do while' loop<br>(iii) Switch case ' | CO3-U | (16) |
| 19. | (a) | Discuss the standard string functions with example to support each type. | CO4-U | (16) |
| | | Or | | |
| | (b) | Compare call by value and call by reference in detail. | CO4-U | (16) |
| 20. | (a) | Describe pointers? When and why they are used? Explain in detail with sample programs. | CO5-U | (16) |
| | | Or | | |
| | (b) | Define Structures. Explain structures in detail. | CO5-U | (16) |