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

<div style="border:1px solid">**Question Paper Code: 51207**</div>

B.E./B.Tech. DEGREE EXAMINATION, NOV 2019

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   CO5-R
variable declaration of a as int a=0)?

(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   CO5-R
types?

(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   CO1- U   (16)
Computer system and explain the function of various units.

Or

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(b) Write the algorithm, Pseudo code and Draw the flow chart for the following problems   CO1- U   (16)

     (i) To find the Largest of three numbers.

     (ii) To find the given year is a leap year or not.

17. (a) Explain in detail about Operators in C with suitable example.   CO2- U   (16)

<div align="center">Or</div>

(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)

<div align="center">Or</div>

(b) Write short notes on the following: CO3-U   (16)

     (i) 'while' loop

     (ii) 'do while' loop

     (iii) Switch case '

19. (a) Discuss the standard string functions with example to support each type.   CO4-U   (16)

<div align="center">Or</div>

(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)

<div align="center">Or</div>

(b) Define Structures. Explain structures in detail.   CO5-U   (16)

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