| 18U3 | J 329 | (Pages: 2) | Name: |
|-------|------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------|
| | , - | REE EXAMINA blementary/Impro UCBCSS-UG) | ATION, NOVEMBER 2019 |
| | CC17U CSC3 C03 - PROBLEM (Computer Science | I SOLVING US | ary Course) |
| Time: | : Three Hours | · | Maximum: 64 Marks |
| | | PART A | |
| | Answer <i>all</i> question | s. Each question | carries 1 mark. |
| 1. | The file name stdio.h is an abbreviation for file. | | |
| 2. | Symbolic names do not appear in declaration. (True/False) | | |
| 3. | . Write the output of the following | code segment. | |
| | for (i=15; i<=10; i=i-1) | | |
| | {printf("%d", i-1);} | | |
| 4. | and var | iables are automa | ntically initialized to zero. |
| 5. | . Define array. | | |
| 6. | What is the significance of writing the format specifier %8.3s in a printf() stratement? | | |
| 7. | . Define function. | | |
| 8. | What is the key difference betwee variable? | een a static exter | rnal variable and a simple external |
| 9. | . If x is an array and p is a pointer to | o x, then how do | you represent x[3] using p? |
| | | | $(9 \times 1 = 9 \text{ Marks})$ |
| | | PART B | |
| | Answer all questions | s. Each question of | carries 2 marks. |
| 10. | 0. What is a pointer? | | |
| 11. | 11. Write any four conversion specifiers with meaning. | | |
| 12. | 2. Write the differences between bre | ak and continue. | |
| 13. | 3. What is recursion? | | |
| 14. | 4. Explain malloc() | | |
| | | | $(5 \times 2 = 10 \text{ Marks})$ |

PART C

Answer any *five* questions. Each question carries 5 marks.

- 15. Explain tokens in C.
- 16. Write syntax and explain in detail a) printf(), b) scanf() c) gets()
- 17. Explain switch statement in C in detail.
- 18. Write a program to count the no. of positives, negatives and zeroes in a set of numbers.
- 19. Explain sorting in ascending order with the following set of numbers {55, 44, 33, 22, 11}
- 20. Explain string functions used in C.
- 21. Describe the different argument passing mechanisms in C.
- 22. What are the different operations on files?

 $(5 \times 5 = 25 \text{ Marks})$

PART D

Answer any two questions. Each question carries 10 marks.

- 23. Explain the structure of a C program with an example.
- 24. Write the program to 'display first n natural numbers' using for, while and do. While and explain the differences.
- 25. Write notes on
 - a) Storage Classes
 - b) Pointer Operations

(6+4=10)

 $(2 \times 10 = 20 \text{ Marks})$
