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B.Com. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2012

Fifth Semester

PROGRAMMING IN C LANGUAGE

(Common for Model-II B.Com Optional Stream Computer Applications, UGC Sponsored B.Com Computer Applications and UGC Sponsored B.Com. (OM and SP))

| Time | · Thr | ee Hours | |
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II.

Maximum Weight: 25

Section A

Answer all questions.

be bunch of four questions carries a weight of 1

| | | Each ounch of tour que | SHUIL | S CLITTLES & WOOGHIN OF AL | | | | |
|------|---|--------------------------------|--------|----------------------------|----|--|--|--|
| Cho | ose the co | rrect answer: | | | | | | |
| 1. | | is an entry controlled loop. | | • | | | | |
| | (a) Do | o-While. | (b) | For. | | | | |
| . · | (c) W | hile. | (d) | If-else. | | | | |
| 2. | | is the format code for reading | g a fÌ | oating point value in C. | • | | | |
| | (a) % | fp. | (b) | % d. | ·. | | | |
| | (c) % | f. · | (d) | % c. | • | | | |
| 3. | Literal m | eans ———• | | • | • | | | |
| | (a) A | string. | (b) | A string constant. | | | | |
| | (c) A1 | n alphabet. | (d) | A character. | | | | |
| 4. | Consider | the following declaration | | | | | | |
| | int | a, *b = & a, **c = &b. | | | , | | | |
| | The follo | wing program fragment | | | | | | |
| | a = | 4; | | | | | | |
| | **c | = 5; | • . | . • | | | | |
| | (a) D | oes not change the value of a | ι. | | | | | |
| | (b) A | ssigns address of c to a. | | | | | | |
| | . (c) A | ssigns the value of b to a. | | • | • | | | |
| | (d) A | ssigns 5 to a. | | | , | | | |
| Fill | in blanks | · • | | | | | | |
| 5. | EOF star | nds for ———. | | | | | | |
| 6. | 5. Every program in a C program must end with a ————, | | | | | | | |
| 7. | to a manufacturing division | | | | | | | |
| 8. | | function joins two strings to | gethe | r. | | | | |

Turn over

- III. State whether the following statements are True or False:
 - 9. A pointer can never be subtracted from another pointer.
 - 10. One if can have more than one else clause.
 - •11. Every functin should have a return statement.
 - 12. Syntax errors will be detected by the compiler.
- IV. Match the following:
 - 13. Character functions stdio.h
 - 14. Output functions &&
 - 15. Bitwise AND ctype.h
 - 16. Logical AND &

 $(4\times 1=4)$

Section B

Answer any five questions.

Each question carries a weight of 1.

- 17. What is a pointer? How is it initialized?
- 18. Explain different types of constants in C with example.
- 19. List out the advantages and limitations of flowcharts.
- 20. Which are the different modes used for opening a file?
- 21. What is meant by array of structures?
- 22. Write a program to find whether a no: is prime or not.
- 23. What is the difference between a constant and a variable?
- 24. Determine the output of the program:

 $(5\times 1=5)$

Section C

Answer any four questions. Each question carries a weight of 2.

- 25. Differentiate between:
 - (a) Call by Reference and Call by Value.
 - (b) Global and Local variables.
- 26. Explain the different types of functions in C.
- 27. What is an array? Explain different types of arrays with example.
- 28. Find errors, if any, in the following statements and rectify them. Give reason
 - (a) a = b ++ c *2
 - (b) $p^* = x/y$.
- 29. Write a program to copy the contents of one file into another.
- 30. Write a C program to read data from the keyboards, write it into a file called INPUT, again read the same data from the INPUT file, and display it on the screen.

 $(4 \times 2 = 8)$

Section D

Answer any two questions.

Each question carries a weight of 4.

- 31. Explain briefly alogithm and flowchart. Draw a flowchart along with algorithm to check whether a given number is odd or even. If it is odd, add 5 to that number else subtract 5 from that number.
- 32. Explain different looping statements in C.
- 33. (a) Write a program to print the multiplication table.
 - (b) Write a program using function to generate and print the first 'n' Fibonacci numbers.

 $(2 \times 4 = 8)$