Madras University

B.C.A Computer Application 2nd semester programming in c

Section A (10 * 2 = 20)

all questions carry equal marks.
each answer should not exceed 30 words.

1) what are constants?
2) what are relational operators in c?
3) what is the purpose of conditional operator?
4) what is the use of '\n'?
5) define: recursion.
6) what is the static variable? when should it be used?
7) what is meant by prototyping?
8) what is an array variable? how does it differ from an ordinary variable?
9) what are self-referential structures?
10) mention the features of 'union' data type.
11) write the advantages of pointers.
12) what is the use of append mode in file handling?

Section B (5 * 5 = 25)(any 5)

all questions carry equal marks.each answer should not exceed 200 words.

13) write short notes on : declarations and expressions in c.
14) explain any four library functions with examples.
15) write a c program to find the sum of odd integers between 1 and n.
16) compare 'while' and 'do-while' statements.
17) write a c program to find the biggest of given n numbers.
18) explain about the logical bitwise operators with examples.
19) discuss briefly about pointer declarations with examples.

Section C (3 * 10 = 30)(any 3 questions)

all questions carry equal marks.
each answer should not exceed 500 words.

20) write a c program to evaluate the series:
s = 1 + 1/2 + 1/3 + ... + 1/n.
21) explain about various data input and output functions in c with suitable examples.
22) write a c program which calls a function reverse() which accepts a string and displays its
reverse.
23) explain about passing arrays to functions with an example c program.
24) describe in detail, file handling functions in c with examples.

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