SUBJECT CODE : CS/MC/PF14

B.C.A. DEGREE EXAMINATION – NOVEMBER 2008
FIRST SEMESTER

COURSE   : MAJOR CORE
PAPER   : PROGRAMMING FUNDAMENTALS – C LANGUAGE
TIME   : 1½ HOURS   MAX. MARKS : 50

SECTION - A

ANSWER ALL THE QUESTIONS :   **10X1=10**

Choose the best answer:

1. Executing a sequence of precise instructions is called a _____.
   a) Program   b) Data   c) Information   d) Constants

2. A sequence of digits preceded by ox or OX is considered as _____ integer.
   a) an Octal   b) Hexadecimal   c) Decimal   d) Binary

3. != is a _____ operator.
   a) arithmetic   b) relational   c) logical   d) unary

4. A _____ is a data name that may be used to store a data value.
   a) keyword   b) Identifier   c) Symbolic constant   d) Variable

5. The field specification for reading an integer is _____
   a) %ws   b) %wd   c) %wc   d) %f

Fill in the blanks:

6. _____ function may be called successfully to read the characters contained in a line of text.

7. _____ statement is used to control the flow of execution of statements.

8. The _____ statement requires a label in order to identify the place where the branch is to be made.

9. A _____ is a convenient tool for handling a group of logically related data items.

10. _____ variables are stored in the register.

SECTION - B

ANSWER ALL THE QUESTIONS : 5X2=10

11. What is an algorithm? List any two characteristics of an algorithm.
12. Explain the purpose of escape sequence characters.
13. Write a note on Bitwise Operators.
14. What is structure? Give the syntax.
15. Describe the functions with no arguments and no return values with an example.

SECTION C

ANSWER ANY SIX OF THE FOLLOWING QUESTIONS : 6X5=30

16. Draw a flow chart to generate all Armstrong numbers between 1 and 500.
17. Write an algorithm to count the positive, negative, odd and even numbers in an array.
18. Explain the different operators with example.
19. Explain in detail about the declaration & initialization of a single dimensional arrays with examples.
20. What are functions in C ? Explain the types of functions with an example.
21. Point out the errors, if any in the following program.

```
main ( )
{
  struct employee
   {
     char name[25];
     int age;
     float bs;
   };
  struct employee e;
  stripy(e.name, "Anitha");
  age = 25;
  printf("\n %s %d", e.name, age);
}
```

22. Briefly explain about the string handling functions with an example.
23. Describe in detail about the command line arguments.

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