

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2008-09)

SUBJECT CODE : DC/12/UC

PGDCS EXAMINATION – NOVEMBER 2008
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : UNIX OPERATING SYSTEM AND C PROGRAMMING
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.

