



EXAM -JUNE-2025

PAPER'S CODE:-

ADCA-07

Time:- 02 :00 Hours

Basic Concept of Programming

Max Mark's:-100

funSZ'k % IHkh [k.Mkas ds iz"uksa dk mRrj fy[kuk vfuok;Z gSA

Section A Multiple Choices

1. Which of the following does not represent a valid storage class in c?
a.Static b. union c. extern d. automatic
2. How many arguments are in copy constructor?
a. No argument b. Any number of arguments. c. One argument d. None of the above.
3. Which technique is used to temporarily removing non-active programs from the memory of computer system?
a. Swapping b. Spooling c. Scheduler d. None of the above.
4. If a binary tree has 25 nodes, then how many null branches are there?
a. 54 b. 27 c. 26 d. None of the above
5. Who is known as the father of C Language ?
a.James b.Vjarne Stroustrup c. Dennis Ritchie d.Dr. E. F. Codd

5*1=5

Section B True/ False

1. The expression which is a selection statement can have no side effects.
2. The function definition contains the code for a function.
3. Function calls the return void may not be used as part of an expression.
4. Function calls the return void may not be used as part of an expression..
5. Logical data are data that can be interpreted true or false.
6. The return type of malloc function is void.
7. #define is known as preprocessor compiler directive.
8. Algorithm is the graphical representation of logic.
9. Size of() is a function that returns the size of a variable.
10. It is necessary that a loop counter must only be an int. It cannot be a float.

10*1=10

Section-C Long type answer

Note: - Write any Six answer of the following Question but Nine is compulsory

14*6=84

1. What is an algorithm and flowchart? Describe with suitable example.
2. Describe about insertion and selection sorting technique?
3. Describe in detail Weighted graph with suitable example.
4. Describe about *Kruskal's* Algorithm data structure? With suitable example.
5. What is tree? Describe its terminology.
6. Describe about recursive method with suitable example..
7. Convert the postfix Notation and Prefix Notation
(a) (A*B)*C/D/E^(F/G) (b) ((NOT A) OR (NOT B) AND (NOT C))
8. Write short notes of following.
a. Variable b. Constant c. Ternary Operator d. Array
e. Function f. header file g. Binary Operator h. Unary Operator
9. Explain about following.
(a) Scape sequence (b) BEDMAS. (c) Format specifier (d) Reserve Words