



VidyaJyothi Institute of Technology (Autonomous)

(Accredited by NBA & NAAC Approved By A.I.C.T.E., New Delhi, Permanently Affiliated to JNTUH) Aziz
Nagar, C.B.Post, Hyderabad -500075

Department of Humanities and Sciences

B.Tech First Year I Semester-2022-23

QUESTION BANK

Subject: PPS

UNIT-I VERY SHORT ANSWER QUESTIONS	
1	Define Flowchart, Algorithm and Program? Explain with one example.
2	Define Pseudocode? Write Pseudocode for addition of two numbers.
3	Define Translator? Explain types of Translators?
4	Write short notes on History of C language, List the applications of C language.
5	Define Identifier? What are the rules to create an Identifier?
6	Write a program to find Area of circle
7	Write a program to find Addition of two numbers
8	Explain types of languages
9	Write algorithm and draw a flowchart for average of three subject marks
10	Draw a flowchart to find area of circle
11	Write algorithm and draw a flowchart to find simple interest
12	Define Token? List out types of tokens in C
13	Write short note on Definition Section with example.
14	Write a program to print ASCII value.
15	Define Operators and List types of Operators.
16	Explain Type conversion and Typecasting with examples.
17	Evaluate the following expression $x=3*((4*5)/2)$? Write the importance of Precedence and Associativity ?
18	Write a program to Shift inputted data by 2 bits to the left.
19	Write a program to Shift inputted data by 2 bits to the right.
20	Explain sizeof() operator with example program.

UNIT-I LONG ANSWER QUESTIONS	
1	Define Computer? Draw a Block diagram of computer and explain major components of Computer
2	Define Flowchart .Give different symbols. Give any example.
3	Explain about the basic data types in C language with example
4	Explain Input and Output Statements with a syntax and example programs
5	Explain Structure of a C Program.
6	Explain Salient features of C language.
7	Give the format for Conditional operator. When it is used?
8	Write a program to swap 2 numbers using 3rd variable
9	Write an Algorithm and draw a flowchart to find the roots of a quadratic equation.
10	Explain Types of operators in detail giving example for each.



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UNIT-II		VERYSHORT ANSWER QUESTIONS
1		Define control structure and classify them.
2		Explain if-else with syntax and flowchart, Write a program to find greatest of two numbers using if else statement.
3		Explain nested-if syntax with flow chart, Write a program to find greatest of three numbers using Nested if.
4		Explain ladder-if syntax with flow chart. Write a program to print grade of a student using else if ladder.
5		Write the difference between two-way selection and multi-way selection statements.
6		Write the difference between while and do while statements.
7		Write a program to display the following pattern. * * * * * *
8		Define array? List out various Applications of an Array.
9		List types of arrays. Write the advantages of using arrays.
10		Explain the compile time & run time initialization of 1-D array
11		Explain the compile time & run time initialization of 2-D array
12		Write a program to read and display the elements of the 1-D array at run time.
13		Write a program to read and display the elements of the 2-D array at run time.
14		Write a C program to display the sum of the elements of 1-D array.
15		Write a program to display the maximum element in 1-D array
16		Write a program to display the minimum element in 1-D array
17		Define string. How to declare and define string?
18		Explain compile time & run time initialization of strings?
19		Explain standard I/O functions of strings?
20		What are the differences between scanf() and gets()

UNIT-II LONG ANSWER QUESTIONS	
1	Explain Selection statements in C with syntax, flowchart and example.
2	Explain Iterative statements in C with syntax, flowchart and example.
3	Define switch statement explain with syntax and flowchart. Write a program to test all arithmetic operators using switch statement.
4	Write a program to display minimum and maximum numbers among 3 numbers using selection statements.
5	Write the procedure of linear search& bubble sort
6	Write a program to compute the addition, multiplication of two matrices
7	Write a program check the given string is palindrome or not.
8	Write a program to find reverse of given string without strrev().
9	Write a program to implement linear search& bubble sort using Arrays.
10	Explain all string handling functions along with syntax and examples?



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UNIT-III VERY SHORT ANSWER QUESTIONS	
1	Define Structure, what is the syntax to define structure.
2	How to declare structure variable and define structure datatype.
3	What are structure operators, how to use them?
4	Define Structure. How to access structure members using structure variables.
5	Define union, give an example?
6	Write any 3 differences between structures and unions?
7	Write a program to read and display student details using structures.
8	Write a C program display addition of 2 complex numbers using structures.
9	Write a C program display multiplication of 2 complex numbers using structures.
10	Define self-referential structure, give an example?
11	Define pointer. what are pointer operators?
12	Write the syntax to declare and initialize a pointer.

13	What are the advantages of using pointers?
14	Define pointer to an array, give an example?
15	Write a program to read and display 1-D array elements using pointer?
16	Write a program to read and display 2-D array elements using pointer?
17	Define enumerated data type and how to use it, give an example.
18	List Pre Processor directives.
19	Write a program to illustrate pointer concept?
20	Define structure. How to access structure members using pointer
UNIT-III LONG ANSWER QUESTIONS	
1	Define structure, what are structure operators and how to access structure members explain with program?
2	Discuss memory allocation in unions?
3	Discuss memory allocation of structure types with example.
4	Write a program to read and display list of all students details in a class using array of structures? Note: use nested structures for Date of Birth
5	Write a program to read and display all students details using array of structures. Calculate the percentage of each student based on 6 subjects marks. Note: Consider array for marks of 6 subjects.
6.	Write the comparisons between structures and arrays, with examples.
7	Define pointer to a structure, explain with any suitable program?
8	.Define pointer. Write the syntax to declare and initialize a pointer .What are pointer operators, how to use it?
9	Define enumerated data type and how to use it, give an example.
10	Explain commonly used pre processor directives, giving example program

UNIT-IV

<u>SHORT ANSWERS</u>
1. Define Function, giving its Syntax?
2. List the types of Functions?
3. Explain the categories of Functions
4. Explain Parameter passing mechanisms.
5. Define Recursion
6. List the limitations of Recursion.
7. Compare Static Memory Allocation and Dynamic Memory Allocation
8. Write the syntax for malloc(), calloc() ,realloc() and free().
9. List Dynamic memory allocation functions in C.
10. Write the differences between malloc() and calloc().
11. Define storage class and list out types of storage classes in C.
12. Write the differences between auto and static storage class.
13. Write the features of register storage class.
14. Write any program to illustrate static storage class.

15. Define function prototype and give the reason for its necessity.
16. What the difference is between predefined and user defined functions?

17. Differentiate formal parameters and actual parameters.
18. Explain the terms function calling and function Definition.
19. Write short notes on call by value.
20. Write short notes on call by value.
Long Answer Questions:
1. Explain the following terms with example.
a. Function declaration/Prototyping.
b. Function definition.
c. Function calling
2. Explain different categories of functions with examples.
3. Explain in detail all storage classes in C.
4. Write a program to display Fibonacci series using functions
a. with recursive function b. without recursion
5. Write a program to display Factorial of given number using functions
a. with recursive function b. without recursion
6. Explain Parameter Passing Techniques in C with an example.
7. Explain in detail about malloc() with an example program.
8. Explain in detail about calloc() with an example program.
9. Explain in detail about realloc() with an example program.
10. List and explain in detail about the various dynamic memory allocation functions with suitable examples.

UNIT-V

SHORT ANSWERS
1. Define binary file and text file and give examples of each.
2. List out the standard library I/O functions for files.
3. What are command line arguments and how to use it?
4. Write short notes on fopen().
5. List file modes.
6. List random access file functions
7. Define file. explain types of files
8. Describe fscanf () and fprintf() with syntax.
9. Describe fgetc() and fputc() with syntax.
10. Describe getw() and putw() with syntax.
11 Write the syntax and example for fseek().
12 Write the syntax and example for ftell().

13. What are argc and argv illustrate with example?
14. Differentiate append mode and write mode.
15. Differentiate read mode and write mode.

Long Answer Questions:

1. Define File. Explain in detail about the various file operations.
2. Explain in detail about the various modes of a file with example.
3 . Explain in detail various file I/O functions with syntax and example.
4 .Write a program to copy the contents from one file to another.
5. Write a program to merge two files.
6. Write a program to write and read data to/from a file.
7. Explain fseek() in detail with an example program.
8. Explain ftell() in detail with an example program
9. Explain rewind() in detail with an example program
10. Write a program to reverse first n characters of a file.