



SHRI VILE PARLE KELAVANI MANDAL'S
SHRI BHAGUBHAI MAFATLAL POLYTECHNIC



Programme: Computer Engineering
Course: Programming in C

Semester: II (A&B)
Course code: PRC238912

Question Bank for PT - 1

Un it 1 Introduction to Programming and C fundamentals

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| 1 | State any 4 application of C programming |
| 2 | Define Identifier? Enlist rules for writing an identifier Give example |
| 3 | Enlist any 5 'C' datatypes with suitable example |
| 4 | Define: Algorithm and Flowchart Any four advantages of flowchart and Algorithm. Write an algorithm and Draw the flowchart a) To check whether the number is even or odd number b) To print the multiples of a given number c) To check whether the number is a multiple of a given number d) To print the maximum or minimum of 3 numbers e) Input fifty numbers and calculate their sum. |
| 5 | Describe following terms with example : 1) Keyword 2) Token 3) constants |
| 6 | Describe basic structure of C programs using suitable diagram |
| 7 | Explain process of executing C programs using flowchart |
| 8 | Explain Storage classes in C Programming with example |

Unit 2 Operators & Expressions

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| 9 | State the significance of sizeof operator with suitable example |
| 10 | Explain Relational operators and logical operator Program based on Relational operators and logical operator (Question will be given in QP) |
| 11 | State the significance of conditional operator with suitable example |
| 12 | Explain bitwise operators and shift operator with example program |
| 13 | Write the table of Operator precedence and its associativity |
| 14 | Distinguish between implicit and explicit type conversion with suitable example |
| 15 | Demonstrate difference b/w pre increment and post increment operator with example program |

Unit 3 Control Structure

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| 16 | Write 'C' Program to print sum of all odd numbers in the range of 1 to 30 using continue statement |
| 17 | syntax of control structures a) if-else b) switch-case c) nested –if else d) else-if ladder |



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| 18 | syntax of Loop structures a)for loop b) while loop c) do-while loop |
| 19 | Difference between entry controlled loop and exit controlled loop |
| 20 | Write 'C' Program to check whether entered number is Armstrong or not. (Use do-while loop only). |
| 21 | Write 'C' Program to check whether entered number is Strong number or not. Write a program to display the sum of digits of a user input number using do-while loop (Use do-while loop / while loop only). |
| 22 | Write 'C' Program to print factorial of entered number Write 'C' Program to count the number of digits in a given number |
| 23 | Write the syntax of switch-case statement. a) Write a program to perform the mathematical operations (+, -, *, /, %) and display the results using switch case. b) Write a program to display grades based on given range (range: 90 to 100 – 'A+', 70 to 89 – 'A', 50 to 69 – 'B', 40 to 49 – 'C' and Below 40 'FAIL' using switch case. c)Write the syntax of switch-case statement. Write a Menu-Driven program to perform square of a number, cube of a number, complement of a number and display the results using switch case. d)Write a program to read the weekday no and print week day using switch case (eg: 1=Monday 2= Tuesday etc) |
| 24 | Write 'C' Program to check whether entered number is palindrome or not. (Use do-while loop only) |
| 25 | Difference between 1) break and continue statement 2) If and switch |
| 26 | Any Pattern Programs (* pattern or number pattern) |
| 27 | Syntax of goto statement with example Program based on go to statement (Question will be given in QP) |
| 28 | 'C' programming Code will be given to you as a question, you have to find the errors and write the correct code with output |
| 29 | Explain the following with example program a)nested for loop ii)nested if statement |
| 30 | Write a program to display multiplication table (up to 12) for a user entered number using for loop |

*****ALL THE BEST*****