**I N D E X**

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| **Sr.**  **No.** | **Date** | **Particulars** | **Page No** | **Signature** |
| **1** | **12 – 09 - 2023** | An electricity board charges the following rates to user.  For the first 100 units → 60p per unit.  For the next 200 units→80p per unit.  Beyond 300 units→90p per unit.  All users are charged a minimum of Rs. 50; if the total amount is more than  300 then an additional surcharges of 15% is added. Write a program to accept  name of user consumed and print charges with their rates. | **1** |  |
| **2** | **12 – 09 - 2023** | Define a class to represent a bank account.include the following members:  a. Name of the depositor b. Account number  c. Type of Account d. Balance amount in the Account  Member Functions:  a. To assign initial values.  b. To deposit an amount.  c. To withdraw an amount after checking the balance.  d. To display name and balance.  Write main program and handle accounts of 5 customers. | **5** |  |
| **3** | **12 – 09 - 2023** | Program to create a class person having members name and age. Derive a class  student having member percentage. Derive another class teacher having member  salary. Write necessary member function to initialize, read and write data. Also  write the main function. | **9** |  |
| **4** | **23 – 09 - 2023** | Program to create a class name student having date member name, no & three  marks. Write a member function to input name, roll no & marks & calculate  percentage. | **13** |  |
| **5** | **24 – 09 - 2023** | Create a class called "Vehicle" which contains data members registration  number and fuel type Make getdata() function to input data value. Create class  "two-Wheeler" from vehicle which contains data member’s distance and mileage  Make getdata() function to input data. Use overloading techniques for getdata()  function and display the information with fuel used. | **16** |  |
| **6** | **24 – 09 - 2023** | Write a program that consist of two classes Time12 and Time24. The first one  maintains time on 12 hour basis, whereas the other one maintains it on 24-hour  basis. | **19** |  |
| **7** | **25 – 09 - 2023** | Create two classes DM and DB which store the values of distance. DM stores  distance in meters and centimeters. DB stores distances in feet and inches. Write  a program that can read values for the class object and add one object of DM  with another object of DB. Use a friend function to carry out the addition  operation and this function will display answer in meter and centimeters. | **23** |  |
| **8** | **26 – 09 - 2023** | Write a program to maintain a telephone directory use add() and Show()  methods to add new entries and display the telephone numbers of a person when  the name of the person is given. | **25** |  |
| **9** | **26 – 09 - 2023** | Create a base class shape use the class two store double type value that could be  used to compare the area. A drive to specific classes called triangle and  rectangle. From the base shape and a member in get data to the base class to  initialize base data member and another function display area. | **30** |  |
| **10** | **28 – 09 - 2023** | Write Program to implement Stack Operations like PUSH, POP, PEEP, UPDATE and DISPLAY using class and object. | **32** |  |
| **11** | **28 – 09 - 2023** | Write Program to convert Infix to Postfix expression using class and object. | **37** |  |
| **12** | **28 – 09 - 2023** | Write Program to convert Infix to Prefix Expression using class and object. | **40** |  |
| **13** | **29 – 09 - 2023** | Write Program to implement Simple Queue Operations like Insert, Delete and Display. | **44** |  |
| **14** | **01 – 10 - 2023** | Write Program to implement Circular Queue Operations like Insert, Delete and Display using class and object. | **48** |  |
| **15** | **02 – 10 - 2023** | Write Program to implement Double Ended Queue Operations like Insert, Delete  and Display using class and object(To Perform Input Restricted). | **53** |  |
| **16** | **02 – 10 - 2023** | Write Program to implement Double Ended Queue Operations like Insert, Delete  and Display using class and object(To Perform Output Restricted). | **58** |  |