

# C Language Test Paper

**Instructions:** Attempt all questions. Use only if-else, operators, for loop, and while loop. Each question carries 20 marks.

## Q1. Car Parking System (20 Marks)

A shopping mall has limited parking.

Write a C program that:

1. Asks how many vehicles are entering.
  2. For each vehicle:
    - Type = Bike (■20/hr), Car (■50/hr), Truck (■100/hr)
    - Hours parked = input
  3. Calculate total parking charges.
  4. If total charge > ■500 → apply 10% discount.
  5. If vehicles > 10 → show 'Parking Full – No More Entry'.
  6. Print the final collected amount.
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## Q2. Zomato Food Ordering System (20 Marks)

Write a C program that simulates food ordering.

1. Show menu:
    - 1. Pizza – ■200
    - 2. Burger – ■100
    - 3. Momos – ■80
    - 4. Coffee – ■120
  2. Ask user: How many items do you want to order?
  3. For each item: input item number and quantity.
  4. Calculate bill.
  5. If total > ■500 → Free delivery else add ■50.
  6. If only coffee ordered → give 20% discount.
  7. Print final bill.
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## Q3. Electricity Bill Management (20 Marks)

Write a C program for electricity billing.

1. Input number of customers.
  2. For each customer: input name and units consumed.
  3. Charges:
    - Units ≤ 100 → ■5/unit
    - 101–300 units → ■7/unit
    - >300 units → ■10/unit
  4. If bill > ■2000 → apply 5% surcharge.
  5. Print each customer's name, units, and bill.
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## Q4. ATM Withdrawal Simulation (20 Marks)

Write a C program to simulate ATM transactions.

1. Start with balance = ■10000.
  2. Ask number of transactions.
  3. For each transaction:
    - 1 → Withdraw
    - 2 → Deposit
    - 3 → Balance Inquiry
  4. Withdrawal conditions:
    - Should not exceed balance.
    - Maximum withdrawal = ■5000 at once.
  5. At the end, show final balance.
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**Q5. Student Result Management (20 Marks)**

Write a C program for n students.

1. For each student, input marks of 5 subjects.
  2. Calculate total and percentage.
  3. Assign grade:
    - $\geq 90\%$  → Grade A
    - 70–89% → Grade B
    - 50–69% → Grade C
    - $< 50\%$  → Grade F
  4. If grade = F → print 'Better Luck Next Time'.
  5. At the end → print topper's name and percentage.
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