

National Institute of Technology Kurukshetra Department of Computer Engineering Programming using Python (CSIC-104) Branch: AIDS, M&C, IIOT (II Semester) Mid Term- I, Date of Exam – 21-February-2025

Time- 05:00 PM-05:50 PM [50 Min]

Max Marks:15

Instru	ctions: All questions are compulsory. For each question	take suitable input and show the output.
Q1.	A bank customer wants to deposit and withdraw m The customer will choose whether they want to d choice (D for deposit, W for withdrawal, and S to si the following: • a function that allows the customer to depo	oney from their bank account, starting with an initial balance. deposit money or withdraw money, and we will ask for their how the final balance). Write a program with a menu that does esit money into the account based on their choice. draw money from it based on their choice. draw money from it based on their choice. draw money from it based on their choice.
Q2.	There are N number of employees in a small size organization. The organization is maintaining the Covid vaccination status and also arranging the vaccination for unvaccinated. The employees in the organization are sequenced from 1, 2N. The vaccination status is maintained for the whole organization. Vaccination status 00011 (=3) means, the 4th and 5th employees are vaccinated and rest are not. Given the number of employees of the organization, vaccination status of organization (as decimal integer), and sequence number of an employee, find the vaccination status of the employee, if not vaccinated, then vaccinate him and display the update vaccination status of the organization as a decimal number. Input: Output: 10 (Number of employees) 205 (vaccination status of the organization) 5 (sequence number of employee) Updated vaccination status of the organization is: 237	

Q3.	A website requires the users to input username and password to register. Write a program to check the validity of password input by users. Following are the criteria for checking the password: • At least 1 letter between [a-z] • At least 1 number between [0-9] • At least 1 letter between [A-Z] • At least 1 character from [S#@] • Minimum length of transaction password: 6	5 M
	• Maximum length of transaction password: 1? Your program should accept a sequence of comma separated passwords as input from the console and will check them according to the above criteria. Passwords that match the criteria are to be printed, each separated by a comma. Example If the following passwords are given as input to the program: ABd1234@1,a F1#,2w3E*,2We3345 Then, the output of the program should be: ABd1234@1	
Q4.	With a given list [12,24,35,24,88,120,155,88,120,155], write a program to print this list after removing all duplicate values with original order reserved.	2 M