PERT

National Patracetty of Computer & Fourthing Sciences, Stayants Department of Computer Science Allo Form Communica (Fan 2021) 9 November 2021 Paper A

Course Name) Programming Fundamental Course Not CL 1001 Instructor Same : Sometrah Zahid "If there is something, you don't know today. You will surely learn afterwards. Life is not an

DEST OF LUCK!

Total Marks 60

Time Allowed 90 minutes.

For Exam submission: Submit the c file for each question named as Q1.e. Q2.e on Google Your Student ID must be written on the paper. Classroom

| Marks 10 Time 20 mints |

A customer needs a specific amount of paper. The charges on the paper are \$0.10 for single sheets, \$0.055 for amounts in multiples of 100 sheets, \$0.04 in multiples of 500 sheets. Develop a solution to calculate the type and number of package(s) for the least amount of money the customer should buy, given the minimum amount of sheets the customer needs. For example, if the customer needs 380 sheets, the amount she would pay when buying in multiples of 100 would be \$22.00. However, if the customer bought 500 sheets, the cost would be \$20.00. It would be cost effective for the customer to buy a package of 500 sheets.

How many sheets you need to buy?388 Your total cost is \$20.888888 You bought 500.000000 sheets for a minimum price. Process exited after 2.326 seconds with return value 49 press any key to continue . . .

Question # 2:

[Marks: 20 Time: 30 mints]

Write a welcome program in C that asks the user for his roll number in three variables such as year, location, roll_number, (i.e 21-Batch 21, k-Karachi, 2493-roll_number) then prints following message according to his year and location.

For Year:

- 21----> Freshmen
- 20---→ Sophomores
- 19----> Juniors
- 18--→ Seniors

For Locations:

- 4 K Karaolii

 L-Labore
T-laborabed M location in Karachi, program about 4 print the non-of-digits of sett, position

If location is Labore, program, classed print the multiplecation of last two digits of out, overhear

If together in beloweabout, program about depresent outs of the digit of roll manufact.

Welcome to FAST Enter your hatch : 21

Enter character in your roll number: k Enter last 4 digits in your roll murber, 2493

Hello freshmen, welcome to FAST Karachi ©

Your result is 18

[Marks 20 Time 40 mints]

Daraz is having a grand sale on 11/11. The sale is opening from 7th November and will end on 11 November You can avail a 20% discount on all items on first day, 18% discount on 8th November and so on

	Price	
Product	150\$	
·	200\$	
3	250\$	
	1805	-

Make a C program to display a menu to the user. He should be able to purchase as many products unt total discount is less than 200\$. Program should display the summary of products purchased and total along with the total discount.

Welcome to Daraz

You are eligible for 16% discount on all the items you buy. Happy Shopping @

Enter the product you want to purchase or n to exit: A

Enter the product you want to purchase or n to exit; B

Enter the product you want to purchase or n to exit: B

Enter the product you want to purchase or n to exit: C

Enter the product you want to purchase or n to exit; n

You bought I product A

2 product B

1 product C

Your Total Bill is: 800\$

Your Discount is: 128\$

ur Net Bill is: 672\$