CSC126 – FUNDAMENTALS OF ALGORITHMS & COMPUTER PROBLEM SOLVING
ASSESSMENT #2: INDIVIDUAL ASSIGNMENT

NAME   :
STUDENT NO. :
GROUP   :
DATE   :

50

Answer ALL questions.

QUESTION 1

Jungle Bee Sdn Bhd offers point rewards to customers based on their purchases. Based on the purchases made, it offers points to its customers as shown in the table given below:

Amount of purchase (RM)	Points
Less than 500	100
More than or equal to 500 and less than 1000	300
More than or equal to 1000	500

Additional points are also rewarded to the customers if they rated the product as well as made purchases from preferred sellers as shown in the table below:

Conditions		Additional Points
Successfully rated a product	Purchases made from preferred sellers	
No	No	0
Yes	No	50
No	Yes	50
Yes	Yes	100

Based on the above scenario, you are required to:

a) analyze the problem
b) write the pseudocode
c) draw the flowchart
d) write the complete program in C++

QUESTION 2

Juara Nursery, a company that sells flowers and plants, wants to develop a program to help their staff in calculating the total price to be paid by the customers.

The table given below shows the details of flowers and plants available in the nursery:

Category	Item Code	Name	Price per Size (RM)		
			Small (S)	Medium(M)	Large(L)
Decoration (D)	D001	Birah	20	30	45
	D002	Bongsai	70	100	150
Landscape (L)	L001	Pinang Merah	30	60	120
	L002	Pagoda	25	35	45

The program will require the user to input the category, item code, size and quantity of flowers or plants bought by the customer. Then, it will calculate and display the total price. If somehow, the user entered an invalid code for a category or item code, display an appropriate message.

As a junior programmer at the company, you are asked to:

a) analyze the problem
b) write the pseudocode
c) draw the flowchart
d) write the complete program in C++

END OF QUESTION PAPER