Se	etion 01 (25	5 marks)
•	"Machine Language is so error prone". Do you agree with this statement? Explain your answer.	(5 marks)
	"An interpreter is needed every time you run the program, but compiler is needed	(5 marks)
	once to produce the object code". Explain this statement.	
	Name three types of errors that can occur in a computer program and explain how you can	(5 marks)
	detect the stated errors.	
	"A sentence can be syntactically correct, but semantically incorrect". Do you agree	(5 marks)
	with the above statement? Explain your answer with an example.	

5.	Choose the most suitable phrase/term from those given in the list and fill in the blanks to (5 ma	arks)
	make the following sentences meaningful.	
	a) are the first to use true English like phrasing.	
	b) are commonly used in database programming and scripts.	
	c) produce no object code in the process of translation	
	d) translate the entire program into an executable object code.	
	e) can be identified by desk checking.	
	4 th generation language, syntax error, interpreter, a defining diagram, compiler, logical	
	error, desk checking, run time error, constant, diagrams, 5th generation language, 3rd	
	generation language	

Section 02 (75 marks)

1 Read the following scenario and write the pseudo code.

(8 marks)

A program is required to calculate and print the annual interest amount of the credit card depending on the credit limit and the annual interest rate. User enters the credit card type and credit limit to the program as a user input.

The interest rate for each card type can be determined as follows:

Card Type	Annual Interest Rate	
Platinum(P)	20%	
Gold(G)	10%	
Silver(S)	5%	

The annual interest amount for each card type can be determined as follows:

Annual Interest Amount = Credit Limit * Annual Interest Rate

Sample Output:

Enter Card Type: P

Enter Credit Limit:50000

The Annual Interest Amount: 10000

2	Read the following problem scenario and answer the questions a), b) and c)	
_		
	A program requests the user to enter a number and prints a pattern as follows: Enter Number: 3	
	Output: 1 2 3 1 2	
	1	
	a) Draw the defining diagram for the above scenario.	(5 marks)
	1) White the manufactor of Court and San the characteristics.	
1	b) Write the pseudo-code for the above problem.	(12 marks)

c) Desk check your	solution for the fo	ollowing test case.	(8 marks)
Sample Test Case:	Input Number	2	
	Expected	1 2	
	Output Pattern	1	

1	Read the following scenario and answer the questions a) and b). A program is required to prompt the user to enter a set of positive numbers, one at a time. Use 199 to indicate that he has completed entering numbers. Then, the programs ald isplay	er enters a -
•	The count of numbers entered	
•	The sum of all numbers entered.	
-	n) Draw the Defining diagram.	(5 marks)
L	a) White the manual and for the civer much law	(12 marks)
_	b) Write the pseudocode for the given problem.	(12 marks)
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4 Read the following scenario and answer the given questions.

The following array stores positive integers.

Array Index	0	1	2	3	4	5
Numbers	5	10	4	3	9	6

Write pseudocode to do the following:	
a) Declare a one-dimensional array to store positive integers	(1 mark)

b) Accept the positive integers as a user input and fill the array. (4 marks)

c) Find and print if there're any odd numbers stored in the array. (6 marks)

d) Calculate the total of the odd numbers.	(4 marks)

5 The following figure illustrates a number pattern. Identify the pattern and write the (10 marks) pseudocode to store the numbers in a two-dimensional array.

5	10	15	20
30	35	40	45
55	60	65	70