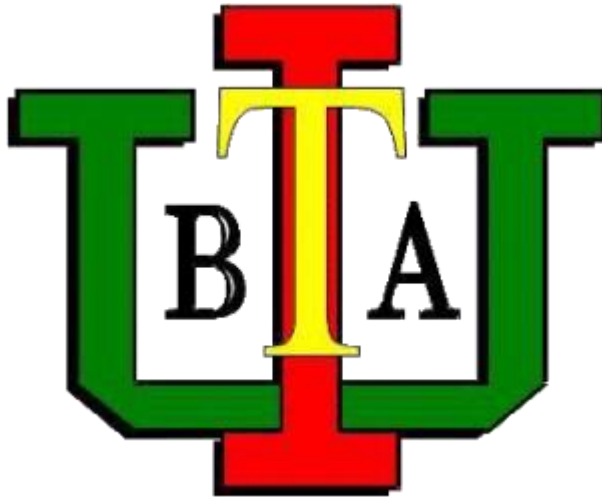


IUBAT— International University of Business Agriculture and Technology



Name : Sammi Akter

Student ID : 20103038

Course Name : Discrete Mathematics

Course Number : MAT 257

Assignment :03

Submission Date: 18th August , 2023

Professor's Name : Dr. Rajib Lochan Das

Department of : Bcse

International University of Business Agriculture and Technology (IUBAT)

Part-1

Answer to the question No:01

From this whole course I like check digit topic most. Because we can use it our daily life. Check digit is connected with product. Before learning I had no idea of the connection between check digit and products or bank card or UPC. That's why I like it.



Answer to the question No:02

From this whole course if I didn't like any topic or any chapter then it is prove of methods. I don't like this topic because it takes more time to cover all and it also probability to take wrong decision. To solve this method we have to use many law that's quite tough to remember. That's why I did not like this chapter.

Answers to the Question NO: 03

I think one more chapter should be added about Propositional logic. But permutation should remove from this course. Because we already complete this type of mathematics in MAT-147 and also higher secondary level. No need to add this topic in university.

Conclusion: In summary, I learn many new things from this course, which will help in future as a software Engineer.

Reference: from whole course idea.

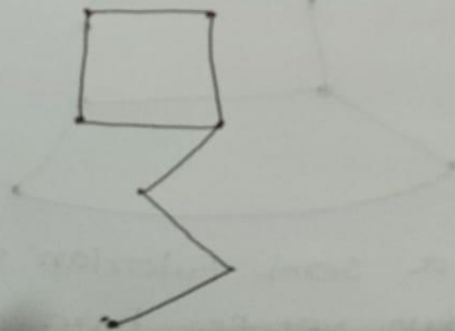
Part-2

Answer to the question NO: 1

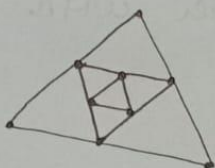
(i) Eulerian Graph with 6 vertices:



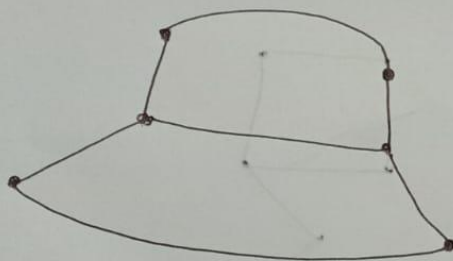
(ii) Semi-Eulerian Graph with 7 vertices



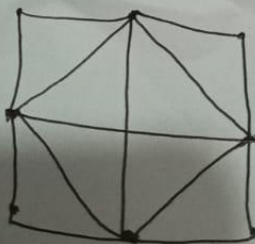
Answer to the question No. 02



It's an Eulerian graph because each vertex has even no. of degree.



It's a semi-Eulerian graph because it has two vertices with odd no. of degree.



This graph is Eulerian graph because
it's all vertices have even no of edge.

