Name:

Matric No:

Section:

**Assignment 1**

**Instruction: Answer ALL Question. Submit on 20/22 Nov 2023**

1. TelcoHere.com has a good sale this year. However, due to several occurrence of security breach, they have to invest in remediation of the breach and legal. The manager plans to install a Network Intrusion Detection System (NIDS) to prevent the attacks from the outsider that cause $400,000 with the licensing. However, he need to convince the board of spending money on this solution. He estimates by installing NIDS, he can block 85% of the attack. He studies the breach, and see the pattern for those three years, where the attack will occur during festive time which is 4 times a year.
   1. Calculate the ROSI.
   2. Conclude your finding.
2. Management of It'll Heal Medical Company are concerning about security issues of three divisions of the company. He would like to look into these three division and provide suitable solution to each of the division.

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| --- | --- | --- | --- |
|  | Booboo Division | Splint Division | Intensive Care Division |
| Cost of breach | $50,000 | $100,000 | $15,000 |
| Occurrence | Once in 4 months | 10 times a year | 2 times a year |
| Mitigation ratio | 95% | 85% | 80% |
| Cost of solution | $70,000 | $150,000 | $40,000 |

* 1. Calculate ROSI for each division
  2. Determine for each division a decision of investing into buying security solution. Justify your answer.

1. What is Work Breakdown Structure (WBS)?
2. Prepare a WBS for constructing a house.