

Instructions:

- You are given 30 mins to solve and upload the solution of this quiz using the google form using this link <https://forms.gle/KPAPbYA9X4wfsGiQ9>
- You will not be allowed to upload solution after 30 minutes.
- Only the solution in pdf format will be accepted.

Question.1 CLO-1

Suppose that there are two websites, Amazon and BookScouter, for renting books. The Amazon receives 60% of all orders. Among the orders placed on Amazon, 75% arrive on time. Among the orders placed on BookScouter, 90% arrive on time. Given that an order arrived on time, find the probability that the order was placed on BookScouter.

Question.2 CLO-1

- (a) Each computer in a lab has a 15% chance to be infected with a virus. If a computer is infected, an antivirus software finds the virus with probability 0.9. If a computer is not infected, the software will still generate a false alarm and report a virus with probability 0.10. If the antivirus software reports a virus, what is the probability that indeed, the computer is infected?
- (b) Calculate the reliability of the system in Figure given below if each component is operable with probability 0.92 independently of the other components.

