

**Course No: CSE 230**  
**Course Title: Discrete Mathematics**  
**Quiz 3 Total: 20**  
**Time: 20 minutes**

ID:

Name:

Sec:

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1. A school survey found that 9 out of 10 students like pizza. If three students are chosen at random with replacement, what is the probability that all three students like pizza? [5]
  
2. Two dies are rolled, find the probability that the sum is “equal to 1” ? [5]
  
3. A die is rolled and a coin is tossed, find the probability that the die shows an odd number and the coin shows a head. [5]
  
4. You toss a fair coin three times. Given that you have observed at least one tails, what is the probability that you observe at least two heads? [5]