SNS COLLEGE OF TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
COIMBATORE – 35
DEPARTMENT OF COMPUTER SIENCE AND ENGINEERING

PUZZLES

	PUZZLES	ANSWERS
1.	"You are standing at a crossroad, and there are three paths ahead of you. Each path leads to a different destination. You can ask the locals for directions, but they are known to give incorrect information. One path leads to the city you want to go to, and the other two paths lead to different places. You can only ask one question to one local, and they will answer with either 'Yes' or 'No.' What question should you ask to find the correct path?"	To find the correct path, you can ask the locals the following question: "If I were to ask the other person which path leads to the city I want to go to, what would they say?" Then, take the opposite of their answer. If the person you asked gives incorrect information, this method will lead you to the correct path.
2.	"You have three boxes, each labeled with a sign: 'Apples,' 'Oranges,' and 'Mixed Fruits.' One box contains only apples, another only oranges, and the third has a mix of both fruits. However, all the signs are placed incorrectly, and none of them represent the actual contents of the boxes. You can take out and look at the fruits from one box only. How can you correctly label all three boxes with the correct fruit names?"	Take a fruit from the box labeled 'Mixed Fruits.' Since all the labels are incorrect, this box cannot contain mixed fruits. If you picked an apple, label that box as 'Apples.' Then, you know the box labeled 'Apples' must contain mixed fruits, so label it as 'Mixed Fruits.' Lastly, the remaining box, which was labeled 'Mixed Fruits,' must contain oranges, so label it as 'Oranges.'
3.	"A farmer has 100 chickens and 100 eggs. The farmer wants to put these items in 100 baskets. Each basket should have one chicken and one egg. How can the farmer do this with exactly 100 baskets and ensure that each basket contains both an egg and a chicken?"	To put 100 chickens and 100 eggs into 100 baskets with each basket containing both an egg and a chicken, you can follow these steps: Take one chicken and one egg and put them together in one basket. Repeat this process for the remaining 99 chickens and 99 eggs, putting each pair into separate baskets.