



United International University
School of Science and Engineering

CT-01 Trimester: Summer-2020 Section: A

Course Title: Probability and Statistics

Course Code: Stat 205 Marks: 20 Time: 30 Mins

(Answer all the questions)

1. The possibilities of detecting the defects of a product *three* machines namely, *A, B & C* [6]
are $\frac{1}{2}$, $\frac{2}{3}$ and $\frac{3}{7}$ respectively. Find the probability that the defect will be find out.
2. A man has *two* boxes. One of them lies on his **left** side and other lies on his **right** side. [7]
The right side box contains *seven* red and *five* blue balls and other box contains *four* [7]
blue and *five* red balls. If he transfers one ball at random from **right to left** box, what is
the probability that a ball drawn from his left box is **different color**?
3. A bag contains **7** red & **5** white balls. Two draws are made **without replacement**. What [7]
is the probability that both the balls are **different color**?