## NIOS/Acad./2021/311/18/E

# National Institute of Open Schooling (NIOS) Senior Secondary Course <br> Lesson - 18: Random Experiments and Events Worksheet -18 

1. A box contains 1 red and 3 identical white ball. Two balls are drawn at random succession without replacement. Write the sample space for this experiment.
2. A coin is tossed and then a die is thrown. Write the sample space for this experiment.
3. Out of 5 players $\mathrm{X}, \mathrm{Y}, \mathrm{Z}, \mathrm{P}$ and Q , two players are to be selected for the match. Write the sample space for experiment.
4. Differentiate between independent and dependent events with appropriate examples.
5. A coin is tossed and then a die is thrown. Write the sample space for this experiment.
6. Three coins are tossed. Describe the following
(i) Two events which are mutually exclusive.
(ii) Three events which are mutually exclusive and exhaustive.
7. A coin is tossed two times. Find the total number of elementary events and total numbers of events associated with the random experiment.
8. Differentiate between an elementary event and a compound event. List out two examples from each event.
9. A die is thrown: Describe the following events:
(i) A: number less than 7
(ii) B: a multiple of 3
(iii)C: a number not less than 3
10. If three dice are thrown together. How many outcomes would be the sample space? Identify the events when all dice come up with same number.
