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National Institute of Open Schooling (NIOS) Senior Secondary Course 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 X, Y, Z, 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.