

Assignment 6

PRABHAV SINGH (BT21BTECH11004)

20 May 2022

Outline

1 Question

2 Solution

Question

Show that if S consists of a countable number of elements ζ and each subset (ζ) is an event, then all subsets of S are events.

Solution

Since S contains countable number of elements ,therefore Any subset of S will contain a finite number of elements. Hence, it(each subset) can be written as a countable union of elementary events or sample points . So it is clear that all subsets of S will be an event.