



Nalanda Collage – Colombo 10

Grade 09 – Third Term

Unit Test 24

Mathematics

Probability

$1\frac{1}{4}$ hours

Part I

1. Mention the sample space of tossing a die numbered from 1 to 6.
2. Write 2 examples for experiments with equally likely outcomes.
3. Mention the formula to obtain the probability of an experiment with equally likely outcomes.
4. Find the probability of obtaining an Odd number when tossing a fair die numbered from 1 to 6.
5. In a box there are 2 Red balls and 3 Blue balls. Write the sample space and number of elements of the experiment when taking out a ball randomly.
6. In bag, there are 2 Red buttons and another bag there are 2 Black buttons. Write the sample space when taking a button out of each bag randomly.

Part II

1. Define a random experiment and give 3 examples.
2. Answer following questions using the outcomes can be obtain by tossing a fair die numbered 1 to 6.
 - i. Write the sample space of all the outcomes can be obtained.
 - ii. Find $n(S)$
 - iii. If the probability of obtaining an odd number is A , find the elements of A .
 - iv. Find $n(A)$

3. 20 identical cards are numbered 1 to 20. An experiment carried out to take a card out randomly.

- i. Find the probability of obtaining the card numbered 15.
- ii. Find the probability of obtaining an Even number.
- iii. Find the probability of obtaining a Triangular number.
- iv. Find the probability of obtaining a Square number
- v. Find the probability of obtaining a Square number which is also an Even number.



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