

Last date of

Submission: 06.05.2019

BCE Patliputra
Patna-13

II Semester

Assignment
Mathematics-II CSE Branch.

1. (a) Find the probability of throwing 9 and 6 with two dice.

(b) From a pack of 52 cards, one is drawn at random. Find the probability of getting a king.

2. An urn contains nine balls, two of which are red, three blue and four black. Three balls are drawn from urn at random. What is the probability that

(i) the three balls are different colours?

(ii) the three balls are of the same colour?

3. Define variance of discrete and continuous probability distribution separately and prove that

$$\sigma^2 = E(X^2) - [E(X)]^2$$