## TEST 2 PROBABILITY AND STATISTICS 11.04.2017

1. From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

A. 1/15

B. 25/57

C. 35/256

D. 1/221

2. In a playoff series, the probability that Team A wins over Team B is 3/5 and the probability that Team C wins over Team D is 4/7. If the events are independent, the probability that Team A wins and Team C loses is:

- A. 9/35
- B. 12/35
- C. 7/12
- D. 1/3

3. Three unbiased coins are tossed. What is the probability of getting **at most** one head?

A. 1/4

B. 1/2

C. 3/8

D. 7/8

4. A 5 digit PIN number can begin with any digit (except zero) and the remaining digits have no restriction. If repeated digits are allowed, the probability of the PIN code beginning with a 7 and ending with an 8 is:

A. 1/10

B. 2/5

C. 1/100

D. 1/90

5. Probability that a randomly chosen point of a square of size a=10 cm will be found inside a circle inscribed in this square is:

- A)  $\pi/4$
- B)  $1-\pi/4$
- C) 1-  $3\pi/4$
- D) 1/100