Probability of Data Handling

1. Choose the correct answer.

2.

A. An operation that fields a set of results is called

	i) event	ii) experiment		iii) outcome	
В.	The total number of potential outcomes is known as				
	i) sample spa	ace 📄 ii) experiment		iii) Probability	
C.	The probability of getting a 5 when a dice is rolled once is				
	i) $\frac{3}{6}$	ii) $\frac{1}{6}$		iii) $\frac{5}{6}$	
D.	The probability of getting a head when two coins are tossed simultaneously is				
	i) $\frac{3}{4}$	ii) $\frac{1}{6}$		iii) $\frac{1}{2}$	
E.	The sample space when a coin is tossed thrice is				
	i) 3	ii) 8		iii) 2	
Fill in the blanks:					
Α.	Each outcome is called an				
В.	An experiment in which all possible outcomes are known and the exact outcome				
	cannot be predicted is called				
C.	A is the element of uncertainly of an event.				

3. Write 'T' for true and 'F' for false statement.

- A. The total number of outcomes is called an experiment.
- B. Desired outcomes represent an event.
- C. Probability of getting an even number if a dice is rolled is $\frac{2}{6}$.
- D. Probability of getting two heads if two coins are tossed simultaneously is $\frac{1}{4}$.
- E. A coin is tossed 40 times and head is obtained 19 times. If tossing of coins is random then the probability of getting a tail is $\frac{21}{40}$.
- 4. An ordinary fair dice is rolled. Calculate the probability of getting:
 - A. 4
 - B. an even number
- 5. A coin is tossed 100 times and tail is obtained 54 times. On tossing a coin at random, find the probability of getting:
 - A. a tail
 - B. a head
- 6. There are 14 white, 6 black and 8 red socks of equal size in a bag. if one socks is drawn without looking into the bag then find the probability of getting a
 - A. black socks
 - B. red socks
 - C. white socks
- 7. There are 8 marbles in a box with numbers from 1 to 8 marked on each of them.
 - A. What is the probability of drawing a marble with number 3?
 - B. What is the probability of drawing a marble with number 5?
 - C. What is the probability of drawing a marble with number 8?
- 8. Calculate the probability of
 - A. being born on Wednesday.
 - B. not being born on Wednesday.

- 9. A coin is flipped to decide which team starts the game. What is the probability that your team will start?
- 10. Tell whether the following is certain to happen, impossible, can happen but not certain.
 - A. A tossed coin will land tails.
 - B. Tomorrow will be a rainy day.
 - C. You are older today than yesterday.
 - D. The next traffic light seen will be red.