MCQ Bank Statistics 2nd Paper Chapter 01: Introduction to Probability Abdullah Al Mahmud

1.	Mutually exclusive events are (a) always independent			
	(b) always dependent			
	(c) the relationship cannot be determined			
	(d) dependent or independent, depending on scenario			
2.	$P(A \cup B) = P(A) + P(B)$ is true for			
	(a) independent events		(b) dependent events	
	(c) mutually exclusive events		(d) complementary events	
3.	If a coin is tossed n times, how many outcomes are generated?			
	(a) <i>n</i>	(b) n^2	(c) 2^n	(d) $2n$
Answer the next two questions according to the information below				below
	$P(A) = \frac{1}{8}, P(A B) = \frac{1}{4}, \text{ and } P(B A) = \frac{1}{6}$			
4.	$P(A \cap B) = ?$			
	(a) $\frac{1}{48}$	(b) $\frac{1}{24}$	(c) $\frac{1}{32}$	(d) 1
5.	A card is drawn at random from a well-shuffled deck of 52 cards. What is the probability that the drawn card is not a Queen?			
	(a) $\frac{1}{52}$	(b) $\frac{4}{52}$	(c) $\frac{1}{13}$	(d) $\frac{12}{13}$
6.	$P(A \cap \bar{B}) = ?$			
	(a) $P(A) - P(A \cap B)$	(b) $P(B) - P(A \cap B)$	(c) $P(A) - P(A \cup B)$	(d) $P(B) - P(A \cup B)$
7.	f a neutral coin is tossed 5 times, what is the probability that there would be at least 2 heads?			
	(a) 0.81	(b) 0.5	(c) 0.31	(d) 0.16
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AI.	nswer Key: (Correction re	equired for 4 thru fast)		
1.	(b) always dependent	4. (a) $\frac{1}{48}$	6.	(a) $P(A) - P(A \cap B)$
2. (c) mutually exclusive events				
3.	(c) 2^n	5. (a) $\frac{1}{52}$	7.	(a) 0.81