Study Guide for TEST IIMATH 2101

Test II will consist of 21 multiple-choice questions worth 5 points each. The total number of points on the test is 105. Thus, you have a "built-in" 5-point bonus. Please bring a Scan-tron form and a pencil to the test. *The test will be open notes*.

Question No.	Objective(s)
1	Determine which values can and cannot be probability values.
	[Section 4-1, p. 143, #5]
2-3	Calculate basic probabilities.
	[Section 4-1, p. 143-146, #6, 7, 13-20, 25-46;
	Review Exercises, p. 179, 13 (a)-(b), 14(a)]
4-6	Determine probabilities by using data presented in a table.
	[Section 4-1, p. 141, #21-24;
	Section 4-2, pp. 156-157, #9-24;
	Review Exercises, pp. 178-179, #1-5]
7-8	Use the Multiplication Rule to calculate probabilities.
	[Section 4-2, pp. 157-158, #25-30;
	Review Exercises, pp. 179-180, #6, 7, 10, 12 (b), 17]
9	Find the probability of the complement of an event.
	[Section 4-2, p. 156, #5-8;
	Review Exercises, p. 179, #8, 9, 12 (a),]
10-11	Find the number of ways an event can occur using counting techniques.
	[Section 4-4, pp. 174-177, #8, 10, 12, 14, 20, 21, 22, 23 (a)-(b), 27, 28 (a)-
	(b), 31, 34, 35, 36 (a)]
12	Find the probability of an event occurring using counting techniques.
	[Section 4-4, pp. 174-177, #5-7, 9, 11, 13, 15-18, 23(c), 24(c) 25, 26, 28 (c),
	29, 30, 32, 33, 36 (b);
	Review Exercises, p. 180, #15, 16, 18]
13-15	Determine if a table represents a probability distribution.
	Find the mean and standard deviation from a probability distribution.
	[Section 5-1, pp. 196-197, #7-14;
	Review Exercises, p. 230, #5-6]
16-18	Determine the probability of events using the binomial probability
	distribution.
	[Section 5-2, pp. 210-213, # 15-26, 27 (a)-(c), 28 (a)-(c), 37 (b)-(c), 38 (b)-
	(c), 39 (b)-(c), 40 (b)-(c);
10.01	Review Exercises, pp. 220-221, #1-2, 6, 7, 10 (b)-(c)]
19-21	Determine the mean and standard deviation of a binomial probability
	distribution.
	Determine if a result is significantly low or significantly high.
	[Section 5-2, pp. 211-213, #27 (d), 28 (d), 37 (a) and (d), 38 (a) and (d), 39
	(a) and (d), 40 (a) and (d);
	Review Exercises, pp. 220-221, #3-5, 9, 10 (a)]