

QUIZ NO 3 LATEST MTH302

1. There are 5 white balls and 4 black balls. In how many ways can we select 3 white and 2 black balls?

- A. 40                      B. 50                      C. **60**                      D. 30

**Page no 254 Lecture 35 Handouts Example 4**

2. The number of terms in the expansion of the binomial  $(p + q)^n$  is

- A. n                      B. n-1                      C. n + 1                      D. **2n**

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3. When a coin is tossed once, the probability of getting head is

- A. 0.55                      B. 0.52                      C. **0.50**                      D. 0.51

4. A worker out of 500 gets a prize by lottery. What is the chance of any one individual say Zain being selected?

- A. **1/500**                      B. 500/500                      C. 1/600                      D. -1/500

**Page no 257 Lecture 35 Handouts (Same example 600 changed to 500)**

5. The following formula for probability  $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$  is called:

- A. The law of addition                      B. The law of subtraction  
C. **The law of multiplication**                      D. None of these

6. When two events are mutually exclusive, the probability of either one of those occurring is the sum of individual probabilities. This is called the

- A. AND Rule                      B. **OR Rule**                      C. OR-AND Rule                      D. AND-OR Rule

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7. Probability of occurrence of an event  $A = \frac{X}{n}$  (Where X=Number of outcomes favorable to event A and n=total number of outcomes)

- A. nX                      B. n/X                      C. **X/n**                      D. None of these

**Page no 258 Lecture 35 Handouts Example 2**

8. The moving averages can be used for:

- A. better graph                      B. **forecasting purpose**                      C. middle value                      D. Median

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9. Which of these numbers cannot be a probability?

A. 0.5

**B. 1.001**

C. 0

D. 1

10. Which of the following is the mathematical form of the product of all the whole numbers from '1' to 'n'?

A.  $n! = n$

B.  $n! = (1.2.3/n)$

**C.  $n! = 1 \times 2 \times 3 \times \dots \times n$**

D.  $n! = (n/3 \times 2 \times 1)$

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