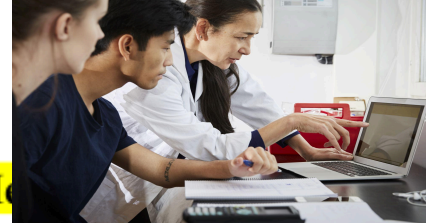


Paid Vu Lms Handling/Past Papers Also Available Mam Mehwish 03184148783

1. **b² is used to measure the:**
 - Kurtosis of the distribution
 - None
 - Skewness of the distribution ✓
 - Both
2. **Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?**
 - $\frac{3}{4}$ ✓
 - $\frac{3}{8}$
 - $\frac{5}{16}$
3. **If $A = \{1,2,3,4\}$ and $B = \{3,4,5,6\}$ then $A - B$ will be:**
 - $\{1,2,3,4,5,6\}$
 - $\{3,4\}$
 - $\{3,2\}$
 - $\{1,2\}$ ✓
4. **Second moment about mean will be equal to:**
 - Median
 - Mean
 - Variance ✓
5. **When an event is as likely to occur as another, it is called:**
 - Mutually exclusive event
 - Equally likely event ✓
 - Normal event
 - Not mutually exclusive event
6. **Consider a set $S = \{a, b, c, d, e\}$. Which set will make the PARTITION of S ?**
 - $\{a, b\}, \{c, d\}$ and $\{a, e\}$



- $\{a, b\}$ and $\{c, d, e\}$ ✓

- $\{a, b, c\}$ and $\{c, d, e\}$

- $\{\}$ and $\{a, b, c, d, e\}$

7. Find the number of subsets of the following set: $\{x \mid x \text{ is a day of the week}\}$

- 7

- 4

- 128 ✓

8. If a player selected a card from a well-shuffled pack of 52 playing cards then the probability of getting a number 10 card is equal to:

- $10/52$

- $4/52$ ✓

- $1/52$

9. Correlation coefficient measures:

- Skewness

- Dependence of one variable on another variable

- Degree of linear relationship between two random variables ✓

- Dispersion

10. In which approach to probability are the outcomes equally likely to occur?

- Subjective Probability

- Relative Frequency

- Objective Probability

- Classical Probability ✓

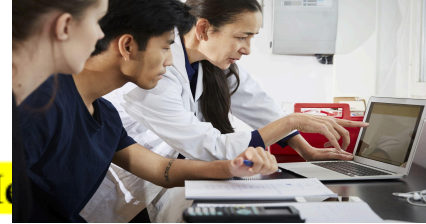
1. The deviation of a distribution from symmetry is called:

- Dispersion

- Kurtosis

- Flatness

- Skewness ✓



2. If we have three events A, B, and C, then for exhaustive events $P(A \cup B \cup C)$ will be equal to:

- $P(A) + P(B) + P(C)$
- 1.0 ☒
- $P(A)$
- $P(B)$

3. In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?

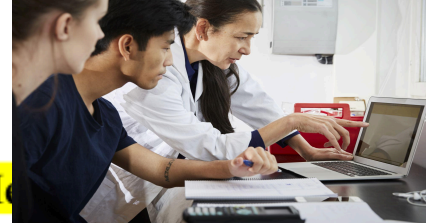
- 720 ☒
- 950
- 2450
- 1560

4. A fair coin is tossed three times. What is the probability that at least one head appears?

- 8
- $\frac{6}{8}$
- $\frac{7}{8}$ ☒
- $\frac{4}{8}$

5. In a group frequency distribution, corrected moments are calculated by the method of:

- Pearson's correction
- Sheppard's correction ☒
- Bowley's correction
- Continuity correction



6. If a distribution has positive skewness, in what order (highest to lowest) will the averages be?

- mode, median, mean
- median, mode, mean
- mean, median, mode ☒
- mean, mode, median

7. A group consists of three persons, A, B, & C. How many ways are there of selecting a group of two persons out of these three?

- 3 ☒

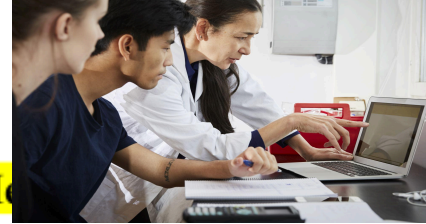
8. If $A = \{H, T\}$ then which of the following is power set of A?

- $\{\{\}, \{H\}, \{1\}, \{H, T\}\}$ ☐
- $\{\{\}, \{H\}, \{T\}, \{H, T\}\}$ ☒
- $\{\{H\}, \{1\}, \{H, T\}, \{1, H\}\}$
- $\{\{H\}, \{1\}, \{H, T\}\}$

9. $10!$ equals to:

- 362880
- 362280
- 3628800 ☒
- 362800

10. The number of elements in the Power set $P(S)$ of the set $S = [\{6\}, 1, \{2, 3\}]$ is:



- 8 ✓

- 4

■ A set which is the sub-set of every set is:

- Universal Set
- Super Set
- **Empty Set** ✓
- Power Set

■ Two dice are tossed. The probability that the total score is a prime number is:

- $\sqrt{6}$
- $7/9$
- **$5/12$** ✓

■ For a symmetrical distribution, b_1 is always:

- Less than
- Less or equal to 1
- **Equal to 0** ✓
- Greater than 1

■ If $A = \{1, 2, 3, 4\}$ and $B = \{3, 4, 5, 6\}$, then $A \cap B$ will be:

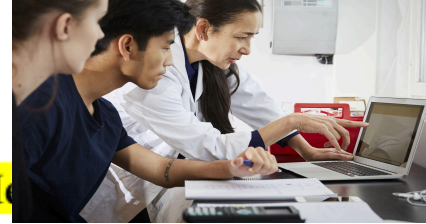
- $\{1, 2\}$
- $\{i\}$
- **$\{3, 4\}$** ✓

■ Which of the following method of skewness is a pure number/unitless?

- Sheppard
- **Bowleys** ✓
- Pearson
- Fisher

■ In how many ways can a team of 11 players be chosen from a total of 16 players?

- **4368** ✓



- 2426
- 2680
- 5400

What is the probability of drawing two clubs from a well-shuffled pack of 52 cards?

- $\sqrt{a}$
- $1/26$
- $13/17$
- $13/51$ ✓

In simple linear regression, which of the following statements indicates there is no linear relationship between the variables x and y ?

- Sum of square of errors is 0
- Coefficient of correlation is 0 ✓
- None of the above
- Coefficient of determination is -1.0

When a researcher wants to compare the intensity of symptoms when different doses are administered. In this case, "different doses" will be treated as:

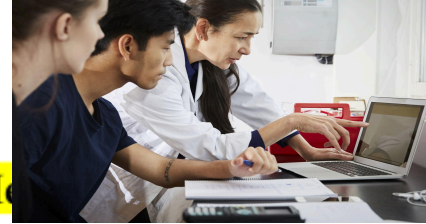
- Qualitative variable
- Independent variable ✓
- Continuous variable
- Dependent variable

If a box contains six red, three blue, and five pink ties, then the probability of blue ties will be equal to:

- $3/14$ ✓
- $5/14$
- $1/a$

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