## **Descriptive Statistics and Introduction to Probability**

1)	The characteristic of an item that can not be measured in some definite units, is
	called
	a) Variable
	b) Attribute
	c) Statistics
	d) Parameter
2)	For the less than cumulative curve, is taken along the X-axis.
	a) Lower class boundaries
	b) Upper class boundaries
	c) Class-mark
	d) Frequency
3)	The arithmetic mean (average) of the first ten whole numbers is
	a) 5.5
	b) 5
	c) 4
	d) 4.5
4)	The value of second quartile is coincides with
	a) Mean
	b) Median
	c) Mode
	d) Standard deviation
5)	Which of the following statement is false?
	a) 25% observation are below Q1
	b) 50% observation are below Q2
	c) 75% observations are below Q3
	d) 25% observations are below Q3
6)	For the set of observation 30.18.20.15.10.23.28.12.16 the value of O1=

	a)	2.5		
	b)	12.5		
	c)	13.5		
	<b>d</b> )	15.5		
_\	u)			
7)		can be determined graphically from Histogram		
	a)	Mean		
	b)	Median		
	c)	Mode		
	d)	Quartile		
8)	Th	e median in the set 6, 4, 2, 3, 4, 5, 5, 4 would be		
	a)	3		
	b)	6		
	c)	5		
	d)			
9)	The	e average of squared deviation from mean is called		
	a)	Mean deviation		
	b)	Variance		
	c)	Standard deviation		
	d)	Covariance		
10) In the relation between mean , median ,Mode , the value of (Mean-Mode)=				
	a)	Mean-median		
	b)	3(Mean-median)		
	c)	3(Mean + Median)		
	d)	Mean + Median		
11) Moment about mean are called				
		a. Raw moment		
		b. Central moment		
		c. Moment about origin		
		d. Moment about Median		
12) Departure from symmetry is called				
		) Second moment		
		) Kurtosis		
		) Skewness		
10		) Variation		
13)	F01	r symmetric distribution, the coefficient of skewness will be		

	a) 0
	b) Q2
	c) Q1
	d) Q3
14) Fo	or positively skewed distribution ,Mean is always
	a) Less than the median
	b) Less than mode
	c) Greater than mode
	d) Difficult to tell
	ne degree of peaked ness or flatness of unimodal distribution is called
	a) Skewness
	b) Symmetry
	c) Diapersion
16) D.	d) Kurtosis owley's coefficient of skewness is
10) D	$O_1 + O_2 + 2O_2$
	a) $\frac{q_1 + q_3 + 2q_2}{q_1 + q_2}$
	$Q_1-Q_3$
	b) $\frac{Q_3 + Q_1 - 2Q_2}{Q_3 + Q_3 - Q_3}$
	cowley's coefficient of skewness is  a) $\frac{Q_1+Q_3+2Q_2}{Q_1-Q_3}$ b) $\frac{Q_3+Q_1-2Q_2}{Q_3-Q_1}$ c) $\frac{Q_3+Q_1+2Q_2}{Q_3+Q_1}$ d) $\frac{Q_3+Q_1-2Q_2}{Q_3-Q_2}$ rst central moment is  a) Equal to 0 b) Greater than 0 c) Less than 0 d) Not equal to 0
	c) $\frac{Q_3 + Q_1 + 2Q_2}{Q_3 + Q_1 + Q_2}$
	$Q_3+Q_1$
	d) $\frac{Q_3 + Q_1 - 2Q_2}{Q_3 + Q_1 - 2Q_2}$
	$Q_3-Q_2$
17) Fi	rst central moment is
	a) Equal to 0
	b) Greater than 0
	c) Less than 0
	d) Not equal to 0
	or Perfect positive correlation, the coefficient of correlation $r = \underline{\hspace{1cm}}$
	a) $0 < r < 1$
	b) -1 < r < 0
	c) $r=1$
	d) $r = 0$
19) W	hich of the following statement is true?
	Scatter Plot gives only direction of correlation
b)	Scatter Plot gives only magnitude of correlation
c)	Scatter Plot gives direction and magnitude of correlation
d)	Scatter Plot neither gives direction nor magnitude of correlation
20) K	arl-Pearson's coefficient gives of correlation.
-	Only magnitude
•	Only direction
	Both magnitude as well as direction
	Neither magnitude nor direction
	he set of all possible outcomes is called
	a) Sample space

- b) Experiment
- c) Event
- d) Probability
- 22) Two events A and B are Exhaustive events is \_\_\_\_\_
  - a)  $A \cup B = \emptyset$
  - b)  $A \cup B = S$
  - c)  $A \cap B = \emptyset$
  - d)  $A \cap B \neq \emptyset$
- 23) Two events A and B are Mutually Exclusive events is \_\_\_\_\_
  - $a) A \cup B = \emptyset$
  - $b) A \cup B = S$
  - $c) A \cap B = \emptyset$
  - $d) A \cap B \neq \emptyset$
- 24)  $P(A \cup B) =$ \_\_\_\_
  - a)  $P(A) + P(B) + P(A \cap B)$
  - b)  $P(A) + P(B) P(A \cap B)$
  - c)  $P(A) P(B) P(A \cap B)$
  - B) d)  $P(A) - P(B) + P(A \cap B)$
- 25)  $P(A \cup A') =$ \_\_\_\_
  - a) P(A) P(A')
  - b) P(A)+P(A')
  - c) P(A) P(A')
  - d) Ø