

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) –201306

POST GRADUATE DIPLOMA IN MANAGEMENT (2024-25) MID TERM EXAMINATION (TERM -I) Times 01 00 hr

Subject Name: Statistics for Decision Making Sub. Code: PG14			Time: 01.00 hrs Max Marks: 20	
	ions are compulsory. Part A carries 10 mark	ss: all questions of 0.5 mar		
1. Why is it imp	oortant to learn statistic	s?	,	
a) To make more accurate predictions c) To manage data more effectively		b) To interpret data and make informed decisions d) All of the above		
2. Which of the	following is a continuou	us variable?		
a) Number of students in a class c) Gender		b) Temperature in degrees Celsius d) Type of car		
3. Which term is a sample?	refers to a summary me	easure that describes a par	ticular characteristic of	
a) Parameter	b) Statistic	c) Population	d) Variable	
4. What is the n	nedian of the following	data set: 8, 12, 14, 18, 22?		
a) 12	b) 14	c) 18	d) 15	
5. The mean is	often referred to as the:			
a) Average	b) Middle value	c) Most frequent valu	e d) None of the above	
6. If a data set l	nas more than one mode	e, it is referred to as:		
a) Unimodal	b) Bimodal	c) Multimodal	d) Non-modal	
7. Which measu	ire of central tendency i	is most affected by extreme	e obesrvation?	
a) Mean	b) Median	c) Mode	d) Geometric mean	
8. In a negative	ly skewed distribution,	which of the following is tr	rue?	
a) Mean > Median > Mode c) Median > Mean > Mode		b) Mode > Median > Meand) Mean = Median = Mode		
9. The geometri	ic mean is most appropi	riate for which type of data	n?	
a) Data measured on a nominal scalec) Data with negative values		b) Data measured on a ratio scaled) Data with outliers		
10. The range o	f a data set is defined as	S:		
a) The difference between the maximumb) The average of the data setd) The sum of all the values in the data set		and minimum values c) The square root of the variance		
11. f the sum of	all values in a data set i	is 72 and there are 9 values	s, what is the mean?	

c) 9

d) 10

b) 8

a) 6

12. If the mean of distribution of the		ne median is 50	, what can be inferred about the			
a) The distribution is symmetricc) The distribution is negatively skewed		b) The distribution is positively skewed d) The distribution is uniform				
13. The coefficien	t of variation is:					
a) The ratio of the standard deviation to the mean b) The square of the standard deviation c) The range divided by the mean d) None of the above						
14. Which of the following measures is not affected by the units of the data?						
a) Range	b) Standard deviation	c) Variance	e d) Coefficient of variation			
15. A data set with a skewness greater than 0 is:						
a) Symmetric b) Positively skewed c) Negatively skewed d) Uniformly distributed						
16. Kurtosis measures the:						
a) Spread of the data c) Flatness or peakedness of the data distribution b) Symmetry of the data d) Central tendency of the data						
17. Calculate the	range of the following d	lata set: 5.5, 11.	82, 25.5, 15.23, 20.9.			
a) 15.2	b) 20.0	c) 25.0	d) 30.21			
18. Which of the following is an example of a nominal variable?						
a) Height	b) Weight	c) Eye color	d) Age			
19. If a data set has a mean of 50 and a standard deviation of 10, what is the coefficient of variation (CV)?						
a) 0.2	b) 0.5	c) 10%	d) 20%			
20. Which of the following is not a measure of central tendency?						
a) Mode	b) Median	c) Standard d	eviation d) Mean			
Part B carries 10 marks: all questions of 0.5 mark each)						
The Class Faculty has provided data on the marks of 120 students in the subject of Statistics. The management seeks to understand the distribution of these marks by identifying key statistical values. As an analyst, your task is to calculate these values and provide insights that will support the management in their decision-making process.						
Find the values From Question 21-25.						
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Marks	No. of Students
0-10	5
10-20	8
20-30	7
30-40	12
40-50	15
50-60	20
60-70	10
70-80	12
80-90	14
90-100	17

21. Determine the mean of the students' marks.

a) **57.25**

b) 60.75

c) 55.23

d) 50.45

22. Calculate the median of the students' marks.							
b) 56.5	c) 57.00	d) 52.75					
23. Assess the variability of the students' marks.							
b) 30.55	c) 26.28	d) 22.44					
24. Evaluate the consistency of the students' marks.							
b) 30.55%	c) 40.28%	d) 48.19%					
25. Identify the first quartile (Q_1) value of the students' marks.							
b) 36.59	c) 40.75	d) 38.33					
	b) 56.5 ability of the students' m b) 30.55 onsistency of the students b) 30.55% st quartile (Q ₁) value of t	b) 56.5 c) 57.00 ability of the students' marks. b) 30.55 c) 26.28 onsistency of the students' marks. b) 30.55% c) 40.28% at quartile (Q ₁) value of the students' marks.					