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## **BRAINWARE UNIVERSITY**

## Term End Examination 2021 - 22 Programme – Bachelor of Business Administration Course Name – Statistics for Business Decisions Course Code - BBAC102 (Semester I)

Time: 1 Hr.15 Min. [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) Which one of these statistics is unaffected by outliers? a) Mean b) Interquartile range c) Standard deviation d) Range (2) Find the median of the following data: 160, 180, 200, 280, 300, 320, 400 a) 140 b) 180 c) 280 d) 300 (3) Census reports used as a source of data is a) Primary Source b) Secondary Source c) Organized data d) none of the above (4) The weights of students in a college/ school is a a) Discrete variable b) Continuous Variable c) Qualitative Variable d) None of these (5) The first hand and unorganized form of data is called a) Secondary Data b) Organized Data c) Primary Data d) None of these (6) Type of central tendency measures which divides data set into four equal parts is a) deciles b) quartiles c) multiple pile of data d) percentiles (7) In measure of central tendency, mean is denoted by a) x b) € d) O c) µ

(8) Per day wage of 15 employees of different departments is as 620, 640, 750, 850, 650, 7

20, 730, 785, 630, 740, 900, 880, 780, 690, 850 then value of  $x^-$  is

a) 047.07	b) 947.67	
c) 847.67	d) 747.67	
(9) When data is arranged, middle value i	n set of observations is classified as	
a) median	b) mean	
c) variance	d) standard deviation	
(10) Around central value of observations, bution is classified as	extent to which values depart from normal distri	
a) negative variation	b) positive variation	
c) skewness	d) positive trailing	
(11) Arithmetic mean is 12 and number of	observations are 20 then sum of all values is	
a) 8		
c) 240	b) 32 d) 1.667	
(12) Mean or average used to measure cen	tral tandanav is salled	
a) sample mean		
c) negative mean	b) arithmetic mean	
	d) population mean	
a) two	s of all recorded observations must always be	
c) one	b) minus one	
(14) In two units of company ampleyees	d) zero	
mployees in unit two are 700 and more an is	n unit one are 650 and monthly salary is \$2750, e nthly salary is \$2500 then combined arithmetic m	
a) 2620	b) 2520	
c) 2420	d) 2320	
(15) Which one is the not measure of dispe	ersion?	
a) Range	b) Variance	
c) Mean	d) Inter-quartile Range	
(16) Which of the following is not a measure	ure of dispersion	
a) Skewness	b) Mean Deviation	
c) Standard Deviation	d) Quartile Deviation	
(17) Considering sales, coefficient of variation for product Y is 8.9% then sales	ation for product X is 9 3% and an ex-	
a) product X is higher	b) product Y is higher	
c) product X is lower	d) product X and Y is lower	
(18) Number of patients who visited cardio olute mean deviation (approximately)	ologists are as 63, 57, 51, 65 in four days then at	
a) 8 patients	b) 4 patients	
c) 10 patients	d) 15 patients	
(19) Mean absolute deviation is divided by te	coefficient of mean absolute deviation to calcula	
a) variance	b) median	
c) arithmetic mean	d) coefficient of variation	
(20) For set of values, percentage of value ard deviations of population is	s that lies within population mean plus four stand	
a) 0.8375	b) 0.9375	
c) 0.95	d) 0.9875	

(21) If positive square root is taken of population var ormed into	iance then calculated measure is tra	ansf
a) standard root	b) standard deviation	
c) standard variance	d) sample variance	LIBRARY
(22) If quartile range is 24 then quartile deviation is	d) sample variance	Brainware University Barasat, Kolkata -700128
a) 12	E) 40	Durasat, Nornata -70012:
c) 72	b) 48 d) 50	
(23) Mean absolute deviation is 5 and arithmetic measure deviation is	그리고 생생님이 하게 되었어 하는 이번 일하고 하는 바람이 하셨다면 하고 있다면 하는 것이다. 그런 하는 모든 사이를 바다면	ıbsol
a) 1.054	b) 0.045	
c) 0.054	d) 0.064	
(24) In a set of observations, amount of variation car of	그리고 하다는 경기를 들어가고 되었다. 그런 사람이 하다는 그렇지 않아 없었다면 있는 그 경기를 가장 있다고 있다.	help
a) absolute measures	b) uniform measures	
c) non-uniform measures	d) exploratory measures	
(25) Mean Deviation, Variance and Standard Deviat.		
a) 2	b) 4	
c) 0	d) 8	ALCERTA CONTRACTOR
(26) Given below the four sets of observations. Which	그들을 마다면 하실 때문에 가는 이 경기를 들어가는 보면서 보다는데 이 문제 하는 때문에 된다.	3179
a) 46, 48, 50, 52, 54	b) 30, 40, 50, 60, 70	
c) 40, 50, 60, 70, 80	d) 48, 49, 50, 51, 52	
(27) Variables whose measurement is done in terms assified as	그들은 경기 하면 그 아이지 않는데 되어 보다 되었다. 그는 사람들은 사람들은 중에 다른 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	re cl
a) continuous variables	b) measuring variables	
c) flowchart variables	d) discrete variables	
(28) At a manufacturing plant, unit of quantity man 10, 260, 330, 310, 260 Find the Range	지기를 하면 생물하면 주어를 하면 어느면 하게 하고 있다면 하는데	40, 2
a) 120	b) 160	
c) 140	d) 150	
(29) The correlation coefficient is used to determine	mer can have better stoff a to go	While last bear (124)
<ul> <li>a) A specific value of the y-variable given a spe cific value of the x-variable</li> </ul>	b) A specific value of the x-varia ecific value of the y-variable	able given a sp
c) The strength of the relationship between the x and y variables	d) None of these	an Barthan (1994) Barakan Taraka
(30) Range of the coefficient of correlation is		
a) 2	b) ± 1	
c) ± 0.5	$d) \pm 0.25$	archidaler (N. Mari
(31) If $bxy = 0.25$ and $byx = 0.64$ , correlation coeff	icient is	
a) 0.16	b) 0.4	
c) 0.89	d) 0.3	
(32) In case there is no relation between two variatill be	oles, value of coefficient of correlat	ion w
a) -2	b) 1	Applitations in the
c) 0	d) 2	energies (Cartier
(33) Correlation refers to	Maked Fire Engants of the second	eren Africanis (1985)

s the causal relationship between two variables	e b) the association between two variables
c) the proportion of variance that two variable share	<ul> <li>d) a statistical method that can only be used with h a correlation research design.</li> </ul>
(34) If two variables, x and y, have a very strong	linear relationship, then
a) there is evidence that x causes a change in y	
c) there might not be any causal relationship b tween x and y	
(35) If the scatter diagram is drawn the scatter po	ints lie on a straight line then it indicates
a) Skewness	b) Perfect correlation
c) No correlation	d) None of these
(36) If all the values fall on the same straight line will be the value of the Correlation coefficient	and the line has a positive slope then what at 'r':
a) 0≤r≤1	b) r≥0
c) r=+1	d) r=-1
(37) The method of least squares dictates that we of the square of deviations of the points from the	choose a regression line where the sum of
a) Maximum	b) Minimum
c) Zero	d) Positive
(38) All data points falling along a straight line is of	called:
a) Linear relationship	b) Non linear relationship
c) Residual	d) Scatter diagram
(39) The predicted rate of response of the depender variable is called:	nt variable to changes in the independent
a) Slope	b) Intercept
c) Error	d) Regression equation
(40) Which of the following can't be a component i	for a time series plot?
a) Seasonality	b) Trend
c) Cyclical	d) Regression
(41) Gradual shifting of a time series over a long pe	riod of time is called
a) Periodicity.	b) Cycle.
c) Regression.	d) Trend.
(42) Short-term, unanticipated, and nonrecurring factorial variability known as	etors in a time series provide the random
a) uncertainty.	b) The forecast error.
c) The residuals.	d) The irregular component.
(43) If a value is missing in a time series we can do	one of the following
a) Just copy the previous value	b) Estimate it as an average between two neigh boring values
c) take the overall mean as the best estimate of it	d) Ignore it
(44) A fire in a factory delaying production for some	weeks is
a) Secular Trend	b) Irregular Trend
c) Seasonal Trend	d) Cyclical Trend
(45) Prosperity, Recession and depression in a busine	
(TJ) A TOSPONO, THE TOTAL ORDING	oo io an evamble of

a) Secular Trend	b) Irregular Trend	LIBRARY
c) Cyclical Trend	d) Seasonal Trend	Brainware University
(46) A restaurant has been experiencing higher	or sales during the weekends of compared to t	Barasat, Kolkata -700125
e weekdays. Daily restaurant sales patter ple of component of time	ns for this restaurant over a week are an exam	
a) Trend	b) Seasonal	
c) Cyclical	d) Irregular	
(47) An overall upward or downward pattern which component of the times series		n
a) trend	b) cyclical	
c) irregular	d) seasonal	
(48) When the prices of rice are to be compar	ed, we compute	
a) Volume Index	b) Value Index	
c) Price Index	d) Aggregative Index	
(49) Uses of index numbers includes	, 60 0	
a) cost of living	b) forecasting	
c) all of these	d) None	
(50) An index number is used:		
a) To measure changes in demand	b) To measure changes in quantity	
c) To measure changes in price	d) To measure changes in a variable	over time
(51) The Laspeyres and Paasche index are ex		
a) Weighted price index only	b) Weighted quantity index only	
c) Weighted index numbers	d) Aggregate index numbers	
(52) What is the probability of getting exactly	y two "tails" in four tosses of a fair coin?	
a) . 3/8	b) 5/8	
c) . 1/2	d) . 1/8	
(53) Probability of second event in situation	if first event has been occurred is classified as	
a) series probability	b) conditional probability	
c) joint probability	d) dependent probability	
(54) If you rolled a 6-sided dice, what is the	probability of rolling a 3?	
a) 1/6	b) 2/3	
c) 3/6	d) 3/3/	
(55) In a Venn diagram used to represent pro d by	babilities, sample space of events is represente	
a) square	b) triangle	
c) circle	d) rectangle	
(56) For two events, probability of occurrence series is classified as	e of both events at same time or occurrence in	
a) joint probability	b) dependent probability	
c) series probability	d) conditional probability	
(57) In probability theories, events which can	n never occur together are classified as	
a) collectively exclusive events	b) mutually exhaustive events	
c) mutually exclusive events	d) collectively exhaustive events	
(58) In measuring probability of any certain	event, zero represents	

a) impossible events
c) certain event
d) sample event
(59) For a random experiment, all possible outcomes are called
a) numerical space
b) event space
c) sample space
d) both b and c
(60) A bag contains 3 red and 2 blue marbles. A marble is drawn at random. The probability of drawing a black ball is:
a) . 3/5
b) 2/5
c) 0
d) 1/5/