Name			Roll No.	
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	Class Test A-	JR UNIVERSITY I, Autumn Semester, MATHEMATICS-III	2018	
Full Marks-25			5	Time- 45 mins
-	noose the appropriate answer from answer and 1.0 mark will be de-	-		es. 2.5 marks will
	the arithmetic mean of n pos $n = 1,, n$ (b) $y_i = 0$			\bar{x} . Then, (d) None of
he above.				
ANS (d) None of the a	above.			
Mean deviation of n	positive values $x_1, x_2,, x_n$	is least while calculated	around	
(a) Arithmetic Mea	n (b) Median	(c) Mode (d) No	ne of the above.	
ANS (b) Median				
For n positive values (a) Harmonic Mean		Harmonic Mean will nev	ver be unique (c) H	Harmonic Mean
vill always be greater	than Arithmetic Mean	(d) None of the abov	e.	
ANS (a) Harmonic Me	ean is always unique			
The mode score of th (a) 99 is the highes	e students of a class is 94. t score	_	ations must be correct? ed a 94 than any other sc	ore
c) A score of 91 is slig	ghtly below average (d) Both (b) and (c).		
ANS (b) More student	ts received a 94 than any ot	her score		
The marks obtained 1 29, 26, 13, 23, 23, 25	by the students in a class ar, 17, 22, 17, 19	e given below. Find the	mean and standard devia	ation.
(a) 21.4, 4.61	(b) 21.4, 4.85 (c) 2	20.3, 7.09 (d) 20.3	3, 6.72.	
ANS (b) 21.4, 4.85				
If the variance of two	sets of values $x_1, x_2,, x_m$	and $y_1, y_2,, y_n$ are sar	ne, then	
(a) $m = n$ always	(b) $m < n$ always	(c) $x_i = y_i$ for all i	(d) None of the ab	oove.
ANS (d) None of the a	above.			
If the third moment a	about mean is zero, then the	e distribution is		
(a) Mesokurtic	(b) Positively skewed	(c) Symmetrical	(d) Negatively skewed	l

ANS (c) Symmetrical

1.

2.

3.

4.

5.

6.

7.

8.	8. For which of the following values of the coefficient of kurtosis can a given distribution be platykurtic?						
	(a) 2.265	(b) 3.135	(c) 0.135	(d) 0.265.			
	ANS (c) 0.135						
9. Suppose r denotes the product moment correlation coefficient for a set of sample values. Then							
	(a) $r^2 > 1$	(b) r always e	xist (c) Both (a) and (b)	(d) None of the above.		
	ANS (d) None of	of the above					
10. A correlation of -0.5 would indicate a scatter diagram in which the slope is							
	(a) Curvilinear	(b) Dowr	nwards	(c) Upwards	(d) None of the above.		
	ANS (b) Downv	wards					

Name		Roll N	No.
TU/MATH			Q
Class T	EZPUR UNIVE Test A-I, Autumn S S-201: MATHEMA	Semester, 2018	
Full Marks-25			$Time-\ 45 \ mins$
(In question nos. 1–10, choose the appropriate ar be given for each correct answer and 1.0 mark w	-		adjoining boxes. 2.5 marks wi
1. Suppose \bar{x} denotes the arithmetic mean o (a) $y_i^2 - \bar{x}^2 < 0$ for all $i = 1,, n$	f n positive values x_1 (b) $y_i = 0$ for all $i =$	$, x_2,, x_n$. Also suppos $1,, n$ (c) both (se $y_i = x_i - \bar{x}$. Then, (a) and (b) (d) Non
of the above.			
ANS (d) None of the above.			
2. Which of the following is correct?(a) Mode is always larger than the mean(b) Mode is always larger than the media(c) Mode is always smaller than the mean(d) Mode always assumes one of the two	n		
(e) None of these.			
ANS (e) None of these.			
3. The least value of the variance of a set of	sample values $\{x_1, x\}$	$\{x_1,, x_n\}$ is	
(a) 0 (b) \bar{x} (c) Both (a) a	$\operatorname{nd}(b)$ (d) No.	ne of the above.	
ANS (a) 0			
· · · · · · · · · · · · · · · · · · ·	b) Variance will neve	er be unique (c)	Variance is always greate
than Mode (d) None of the above.			
ANS (a) Variance is always unique			
5. The marks obtained by the students in a 12, 26, 30, 30, 18, 14, 12, 26, 17, 18	class are given below	. Find the mean and sta	andard deviation.
(a) 21.4, 4.61 (b) 21.4, 4.85	(c) 20.3, 7.09	(d) 20.3, 6.72.	
ANS (c) 20.3, 7.09			
6. If the Standard Deviation of two sets of v	values $x_1, x_2,, x_m$ as	and $y_1, y_2,, y_n$ are same	e, then
(a) $m = n$ always (b) $m > n$ alw	vays (c) $x_i = y$	y_i for all i (d) No	one of the above.
ANS (d) None of the above			
7. The first moment about mean is always			
(a) Zoro (b) Ono (c) Nogat	tivo (d) None	of the above	

ANS (a) Zero

1.

2.

3.

4.

5.

6.

7.

4							
8. For which of the following values of the moment coefficient of kurtosis can a given distribution be leptokurt							
(a) -3.265 (b) 3.135 (c) 0.135 (d) 0.265.							
ANS (b) 3.135							
9. Suppose r denotes the product moment correlation coefficient for a set of sample values. Then							
a) $r^2 < 1$ (b) r sometimes can be undefined (c) r always exists (d) None of the above.							
ANS (b) r sometimes can be undefined							
10. A correlation of 0.5 would indicate a scatter diagram in which the slope is							

(c) Upwards

(b) Downwards

(d) None of the above.

(a) Curvilinear

ANS (c) Upwards