	epartm Mathema		lass X	IND	Dep W	artmer /orkshe	nt: M et – S	Iat Sta	L WAI themati tistics easoning	cs	LF	XA		08 -202
					Questic	ons of 1 r	nark	ea	ch					
Q.1.	Find the median class for the following data.													
	Cl	ass	0 -	10	10 - 20	20) - 30) 30 - 40			40 - 50)	Total
	Frequency		12	2	8		8	15			3			46
	A	30 - 4	0	В	C) - 10		C	40 -	50		D	20	0 - 30
Q.2.	The	median an	d mode	of a distri	bution ar	re 21.2 an	d 21.4	4 res	spectively.	Ther	n its n	nean	is	
	A 21 B		В	21.1			С	21.3			D	20.8		
Q.3.	A data has 13 observations arranged in the ascending order. Which observation represents the median of the data?													
	А	7th		В		6th		С	13	th		D		8th
Q.4.	The frequency of the class succeeding the modal class in the following frequency distribution is													
	Class Interval		10 - 15	- 15 15 - 20		- 25	25 - 30		30 - 35		3	35 - 40		
	Frequency		3	7	1	6	12		9			5		
	А	A 7		В		16 C		12			D		9	
Q.5.	Giv	en in the bo	elow tab	le are the	marks oł	otained by	7 50 st	tude	ents in a cl	ass te	st:	1		
	Marks			0 -	0 - 10 10 - 20)	20 - 30		30 - 40			40 - 50	
	No. of students			2	4	7 19		19	12		8			
	Fro	m this data	, the low	er limit of	f the med	lian class	is							
	A	10		В		20		C	2 25		D			30

Q.6.	Consider the following distribution: (CFQ														
		Classes		0 - 5	5 - 10	10 - 15	5 1	5 - 20	20 - 25						
		Frequenc	y	10	15	12		20	9						
	Th	The sum of lower limits of the median class and the modal class is													
	Α	15		В		25		C 30			D		35		
Q.7.	The modal class of the data given below is $10 - 15$, then (CFC														
		Classes		0 - 5	5 - 10	10 - 15	15 15 - 20 20		20 - 25						
		Frequency		7	6	6 f 4 3		3							
	A	f < 8		В		f > 8 only	y C $f \ge 8$			D		f < 7			
Q.8.	Th	e mean of	the follo	owing dis	tributio	n is									
	Classes Frequency			0 - 10	10 - 2	0 20 - 30) 3	0 - 40							
			1	2 2		1]							
	A	20		В		16		C	18	8			22		
Q.9.	For the following distribution, the modal class is (CFQ)														
		Marks		Below	10	Below 20	Belo	ow 30	Below 40	Be	elow	50	Below 60		
		No. of stu	udents	3		12	,	27	57		75		80		
	A	10 - 2	20	В		20 - 30		C	30 - 40		D		50 - 60		
Q.10.	Th	e differenc	e of the	upper lin	nit of th	e median c	lass ar	nd the l	ower limit o	f the 1	moda	l clas	s is (CFQ)	
	С	lass	65 - 8	5 85	- 105	105 - 125	12:	5 - 145	145 - 165 1		165 - 185		185 - 205]	
	Frequency 4		4		5	13		20	14		7		4		
	A	0		В		19		C	20)		38			
Q.11.	If ∑	$\sum fi = 18, \sum$	<i>fi</i> xi = 2	2p + 24 an	d mean	of the distrib	ution i	s 2, the	n p is equal to)					
	A 3			В	4			C	8	8		D 6			

Q.12.	The median of first 10 prime numbers is											
	A 12		В		11 C		13		D	10		
Q.13.	The runs scored by a batsman in 35 different matches are given below:											
	Runs scored		0 - 15	15 - 30	30 - 45	45 - 60	60 - 75	75 - 90	0			
		Frequer	•	5	7	4	8	8	3			
	Number of matches in which the batsman scored less than 60 runs are											
	A	1	6	В		24	C	8		D	19	
Q.14.	4. The mean of 11 observations is 50. If the mean of first 6 observations is 49 and that of the last s											
	observations is 52, then the 6 th observation is (0											
	A 50		0	В		48 C		52		D	56	
Q.15.		rouned d	lata is si	hown belo	xx/•							
		-		0 - 15			45 - 60 60 - 75		75 - 90	0		
	Class interval			2	26	30 - 45	43 - 00	28	30	0		
	Which of the following is the most effective measure of central tendency?											
		A	Mean	because th	ne data has	s extreme da	ata points		_			
		В	Mean	because the	ne data has	s no extreme	e data poir	its	_			
		C	Media	an because	the data h	as extreme	data point	S				
		D	Media	an because	the data h	as no extre	me data po	oints				
		L		,	ASSERTI	ON AND F	REASONI	NG]			
	Ы	PECTIO	N• In o			t of Asserti			7.9			
			-	•		Choose th		•	, u			
		(a) Both	Assert	ion (A) and	d Reason ((R) are true	and Reaso	on (R) is the	e correct	t exp	planation of	
		Asse	ertion (A	A)								
					d Reason (R) are true	and Reaso	n (R) is no	t the cor	rect	explanation of	
			rtion (A rtion (A	, ,	ut reason (R) is false.						
						(R) is true.						
						Statistics/Ma						

Q.16.	.16. Assertion: If the mean and median of a frequency distribution are 10.5 and 9.6 respectively,														
		then its mode is 7.8													
	Reason:	lated as:													
Mode = 3 Median - 2 Mean															
Q.17.	17. Assertion: If the arithmetic mean of 5, 7, x, 10, 15 is x, then $x = 9.25$														
	Reason: If $x_1, x_2, x_3,, x_n$ are n observations in a data, then the mean is given by $\bar{x} = \frac{x_1 + x_2 + x_3 + \dots + x_n}{2n}$														
	1			ANS	WERS										
Q.1	D	Q.2	В	Q.3	А	Q.4	С	Q.5	В						
Q.6	В	Q.7	С	Q.8	А	Q.9	С	Q.10	С						
Q.11	D	Q.12	А	Q.13	В	Q.14	D	Q.15	С						
Q.16	a	Q.17	с												
