

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



Class : 11		Subject : STATISTICS	Term: FIRST TERM	Max Marks : 60		
Q1:	Monthly incor	ne of workers of a factory is		Marks :	1	
	1. attribute					
	2 . discrete var	iable				
	3 continuous	variable	(This Answer is Correct)			
	4. none of the	se				
Q 2 :	Proportion of	girls in a class of 100 students		Marks :	1	
	1. attribute					
	2 discrete var	iable	(This Answer is Correct)			
	3. continuous	variable				
	4 . none of the	se				
Q3:	Grades obtair	ned in examination is		Marks :	1	
	1 attribute		(This Answer is Correct)			
	2 . discrete var	iable	-			
	3. continuous	variable				
	4. none of the	se				
Q4:	An important	disadvantage of mail questionnaire me	ethod is	Marks :	1	
	1. It is time co	nsuming				
	2 . there is larg	e amount of non-response	(This Answer is Correct)			
	3 . it is free from	m interviewer bias	-			
	4. none of the	se				
Q 5 :		diagramatic representation comprises for some specific category of the availa	a number of equidistant rectangles, each of them able data is known as	Marks :	1	
	1 . bar diagram	ı	(This Answer is Correct)			
	2 . line diagran	1	<u> </u>			
	3 . histogram					
	4. none of the	se				

Q6:	Data on religion is the example of		Marks :	1
	1 . ordinal data			
	2 . nominal data	(This Answer is Correct)		
	3 . quantitative data			
	4 . none of these			
Q7:	column diagram is needed to represent		Marks :	1
	1 . continuous data			
	2 . discrete data	(This Answer is Correct)		
	3. both	_		
	4 . none of these			
Q8:	In case of an ogive along Y axis we plot		Marks:	1
	1 . cumulative frequency	(This Answer is Correct)		
	2 . absolute frequency			
	3 . class boundaries			
	4 . none of these			
Q9:	In case of a Histogram along X axis we plot		Marks :	1
-	1 . class frequency			
	2 . cumulative frequency			
	3. class boudaries	(This Answer is Correct)		
	4 . none of these			
Q 10 :	From the intersection point of less than type and more than type	ogivecan be determined.	Marks :	1
	1. mode			
	2. median	(This Answer is Correct)		
	3. mean	_		
	4 . none of these			
Q 11 :	Frequency density is necessary for drawing		Marks :	1
u, II.	1. Ogive			
	2 . step diagram			
	3 histogram	(This Answer is Correct)		
	4 . none of these	<u> </u>		

Q 12 :	The score of 9 students in economics are as follows 40,37,41,38,31	,37,44,45,42.Find median score.	Marks :	1
	1. 42			
	2. 40	(This Answer is Correct)		
	3. 38	_		
	4 . none of these			
Q 13 :	If 2 variables X and Y are related in the form of Y=a +bX		Marks :	1
	1 . median of X= median of Y+a			
	2 . median of Y= median of X-a			
	3 • median of Y=a +b . median of X	(This Answer is Correct)		
	4 . none of these			
Q 14 :	If 3x+5y=15 and median of x be 2 then median of y is		Marks :	1
	1. 1.8	(This Answer is Correct)		
	2. 2	_		
	3. 1.5			
	4 . none of these			
Q 15 :	If 2u=5x is the relation between the variable x and u and geometric mean of u	mean of x is 1, find the geometric	Marks :	1
	1. 5			
	2. 2			
	3. 2.5	(This Answer is Correct)		
	4 . none of these	_		
Q 16 :	The weights of 6 persons are 65,58,56,60,67 and 70 (in kg). Find th	e median value	Marks :	1
	1 . 62 kg			
	2 • 62.5 kg	(This Answer is Correct)		
	3 . 72 kg			
	4 . none of these			
Q 17 :	Geometric mean of the observations 5,1,0,2,4 is		Marks :	1
	1.0	(This Answer is Correct)		
	2. 1			
	3.5			

4		none	of	thes	E
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0.40 .	The sum of the deviations of the values of a variable from its	is zero	Marks :	1
Q 18 :	median		warks .	'
	2. mode			
	3. mean	(This Answer is Correct)		
	4 . none of these	(The Allower is correct)		
	4. Holle of these			
	For a set of positive guartities which of the following is true?		Marka	4
Q 19 :	For a set of positive quantities which of the following is true?	(This Answer is Correct)	Marks:	1
	1 • AM≥ Gm≥Hm	(This Answer is Correct)		
	2 . HM≥Gm≥AM			
	3 . AM=GM=HM			
	4 . none of these			
Q 20 :	The value of the least Fermat number is		Marks :	1
	1. 5			
	2. 2			
	3. 3	(This Answer is Correct)		
	4 . none of these			
Q 21 :	Find the remainder when x³+5x²+3x+2 is divided by x-1		Marks :	1
QZI.			marko .	'
	1. 10	(This Answer is Correct)		
	2.11	(This Answer is Correct)		
	3. 0			
	4 . none of these			
Q 22 :	If $f(x)=6x^3 + 4x^2 + 3x + 2$, find the value of $f(1/3)$		Marks :	1
-, ·	1. 0.27272727273			
	2. 11/03	(This Answer is Correct)		
	3. 12/0 5	'		
	4 . none of these			
	T. Hone of those			
Q 23 :	Find pq+ qr+pr . If p, q and r are 3 roots of the equation x³ + ax -b=0		Marks :	1
Ų ∠3 :	1 a	(This Answer is Correct)	marks .	

2. b/a

3.0

Q 24 :	Which one of the following is true		Marks:	1
	1 . greatest common divisor(na,nb)=n. greatest common	mon divisor (a, b)		
	2 . greatest common divisor (a/n, b/n)= 1/n [greatest	common divisor (a,b)]		
	3 . both	(This Answer is Correct)		
	4 . none of these			
Q 25 :	The HM and GM of 2 positive observations are 12 a	and 18 respectively. Find tfheir AM	Marks :	1
	1. 54			
	2 . 27	(This Answer is Correct)		
	3. 25			
	4 . none of these			
Q 26 :	Mode depends on change of		Marks :	1
	1. origin only			
	2. scale only			
	3 . both origin and scale	(This Answer is Correct)		
	4 . none of these			
Q 27 :	Mode can be calculated from		Marks :	1
	1. ogive			
	2 . Histogram	(This Answer is Correct)		
	3 . step diagram			
	4 . none of these			
Q 28 :	Median depends on change of		Marks :	1
	1 . both origin and scale	(This Answer is Correct)		
	2 . scale only	<u>—</u>		
	3 . origin only			
	4 . none of these			

1. 1

	2. 0 3. that common value (This Answer is Correct)		
	4 . none of these		
Q 30 :	One of the important limitations of statistical tools and techniques is	Marks:	1
	1. Important principles of statistics are necessary for the administration of a country		
	2 statistical laws are true only on the average (This Answer is Correct)		
	3 . statistical techniques are necessary for forecasting future		
	4 . none of these		
Q 31 :	In nominal data we can find	Marks :	1
	1 . no clear ordering (This Answer is Correct)		
	2 . clear ordering		
	3 . only quantitative character		
	4 . none of these		
Q 32 :	The statistical data which have already been collected by some agency and are compiled from that source by the enquirer for his use is called	Marks :	1
	1 . primary data		
	2 . continuous data		
	3 . secondary data (This Answer is Correct)		
	4 . none of these		
Q 33 :	A small scale survey is conducted before the main survey and this is called	Marks :	1
	1 . Exploratory survey		
	2 . Descriptive survey		
	3. Pilot survey (This Answer is Correct)		
	4 . none of these		
Q 34 :	An important advantage of interview method is	Marks :	1
	1 . it can be used even if the informants are illiterate (This Answer is Correct)		
	2 . It is time consuming		
	3 . highly expensive method		
	4 . none of these		

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Q 35:

Important advantage of direct personal observation method is

Marks: 1

1. this method is not appropiate for a large area

	2 . it is an expensive method			
	3 . It is possible to collect genuine information	(This Answer is Correct)		
	4 . none of these			
Q 36 :	An important disadvantage of direct personal observation method is	S	Marks :	1
	1 . It is an expensive method	(This Answer is Correct)		
	2 . there are large amount of non-response	_		
	3 . it is not possible to collect genuine information			
	4 . none of these			
Q 37 :	Important feature of a good questionnaire is		Marks :	1
	1 . it should not be dubious in meaning			
	2 . questions should be relevant to the subject			
	3 . Multiple choice type questions are preferred			
	4. all of the above	(This Answer is Correct)		
Q 38 :	Upper part of the table giving description of different columns is kno	wn as	Marks :	1
	1 . caption	(This Answer is Correct)		
	2. stub	_		
	3. source			
	4. footnote			
Q 39 :	The part of the table refers to the origin of the available information		Marks :	1
	1. footnote			
	2. source	(This Answer is Correct)		
	3. stub	_		
	4 . none of these			
Q 40 :	An important advantage of having tabular form		Marks :	1
	1 . it creates long lasting impression			
	2 . this mode of presentation is not comprehended by a layman			
	3 . it enables one to detect errors or omissions in the data	(This Answer is Correct)		

An important disadvantage of diagramatic representation is

Marks: 1

1. it is time consuming

	2 . diagram fails to represent details			
	3 . only limited information can be presented in a diagram			
	4 . all of the above	(This Answer is Correct)		
Q 42 :	Relative frequency =		Marks :	1
	1 . absolute frequency / class size			
	2 . absolute frequency/ total frequency	(This Answer is Correct)		
	3 . less than type cumulative frequency / total frequency	_		
	4 . none of these			
Q 43 :	Class mark=		Marks :	1
	1. upper end point of a class			
	2 . lower end point of a class			
	3 . the mid value of class interval	(This Answer is Correct)		
	4 . none of these			
Q 44 :	Frequency Density=		Marks :	1
	1 class frequency / class width	(This Answer is Correct)		
	2 . less than type cumulative frequency / class width	_		
	3 . more than type cumulative frequency/class width			
	4 . none of these			
Q 45 :	Frequency Polygon is necessary to represent		Marks :	1
	1 . continuous data			
	2 . discrete data			
	3 . both	(This Answer is Correct)		
	4 . none of these			
Q 46 :	Step diagram is needed to represent		Marks :	1
	1 . continuous data			
	2 . discrete data	(This Answer is Correct)		
	3. both			
	4 . none of these			

Q 47:

Important advantage of diagramatic representation is

Marks: 1

1. it is simple to understand

	2 . it creates long lasting impression				
	3. both 1 and 2	(This Answer is Correct)			
	4 . none of these				
Q 48 :	Qualitative character of data is known as		Marks :	1	
	1 . attribute	(This Answer is Correct)			
	2. variable				
	3 . non frequency data				
	4 . none of these				
Q 49 :	The values of variable recorded for different points or interval of ti	me for an individual or a population	Marks :	1	
	1. spatial series data				
	2 . frequency data				
	3 . time series data	(This Answer is Correct)			
	4 . none of these				
Q 50 :	The statistical data which are gathered directly from the field of in known as	vestigation for the desired purpose is	Marks :	1	
	1 . secondary data				
	2 . primary data	(This Answer is Correct)			
	3 . continuous data				
	4 . none of these				
Q 51 :	If Yi= Xi-C then which one of the following is true		Marks :	1	
	1 . mean of X= mean of Y + C	(This Answer is Correct)			
	2 . mean of Y = mean of X + C				
	3 . mean of X =mean of Y - C				
	4 . none of these				
Q 52 :	If each value of a set of obsrvation is p then arithmetic mean is		Marks :	1	_
, 1	1. 1				
	2. 0				
	3. p	(This Answer is Correct)			
	4 . none of these	_			

Q 53:	The arithmetic mean of 1,2,22,2 ⁿ 9 is		Marks:	1
	1. 102.4			
	2. 102.3	(This Answer is Correct)		
	3. 1024			
	4 . none of these			
Q 54 :	The Geometric mean of N observations a, ar, ar ² ,upto n term	s is	Marks :	1
	1. ar²			
	2 . ar^1/2			
	3 • ar^(n-1)/2	(This Answer is Correct)		
	4 . none of these			
Q 55 :	Two variables x and u are related as x =1.5 u + 2.5 and u has med	dian 20,find median of x.	Marks :	1
	1. 32			
	2. 32.5	(This Answer is Correct)		
	3. 35			
	4 . none of these			
Q 56 :	Find the maximum value of 24x-8-9x² for real x		Marks :	1
400.	1. 9			
	2.8	(This Answer is Correct)		
	3. 2			
	4 . none of these			
0.57	Find p+q+r . If p, q and r are 3 roots of the equation x³ + ax -b=0.		Marks :	1
Q 57 :			warks .	•
	1. 1 2. A			
	3 . B/A	(This Answer is Correct)		
	4.0	(This Allswer is contect)		
Q 58 :	Find pqr . If p, q and r are 3 roots of the equation $x^3 + ax -b=0$.		Marks :	1
	1. b	(This Answer is Correct)		
	2. b/a			
	3. 1			
	4. 0			
	4. 0			

Q 59 :	Find the remainder when x^5 -1 is divided by 2x+1		Marks:	1
	1. 33/32			
	2 . (-33/32)	(This Answer is Correct)		
	3 . 32/33			
	4. 0			
Q 60 :	The mean age of a group of 20 girls is 15 years and to groups are taken together to form a new group, what		Marks :	1
	1 . 20 years	(This Answer is Correct)		
	2 . 25 years			
	3 . 30 years			
	4 . none of these			