Statistics Theory Weightage till Sep24

Chapter →	Chp13	Chp14	Chp17	Chp18	Total
Exam↓					
May 18	2	4	6	8	20
Nov 18	6	1	2	3	12
Jun 19	5	3	1	5	14
Nov 19	1	7	2	5	15
Nov 20	8	5	3	6	22
Jan 21	10	5	2	4	21
Jul 21	6	1	1	0	8
Dec 21	3	5	2	4	14
Jun 22	9	3	4	6	22
Dec 22	4	3	1	3	11
Jun 23	2	0	0	2	4
Dec 23	5	0	2	2	9
Jun 24	7	3	2	4	16
Sep 24	8	4	3	3	18

Theory Summary Revision

THEORY CONCEPTS

Statistical Description of Data – Basics of Statistics

Definition of Statistics	 Plural Sense: Any data – quantitative or qualitative used for statistic analysis. Singular Sense: Scientific method of collecting, analyzing, and presenting data to draw statistical inferences. It is also called as Science of Averages or Science of Counting 				
	Language Latin			Memorize by Latus	
Origin of Word	Italian			Pasta	
word	German	Statistic		Breadstick	
	French	Statistique		Barbeque	
	Koutilya's Arthashastra		Chane	d of Birth and Deaths dragupta's reign ntury B.C	
Publication	Abu Fezal's Ain-i Akbari	i-	 Record on Agriculture Akbar Reign 16th Century A.D. 		
	First Census			300 BC to 2000 BC	





Application of Statistics	 Economics: Demand Analysis, Future Projection etc. Business Management: Decision making using quantitative techniques not intuition Industry and Commerce: Profit maximization using business data – sales, purchase, market etc. by consulting experts 					
Limitation of Statistics	 It deals with aggregate data and not individual data Quantitative data can only be used, however for qualitative – it needs to be converted into quantitative Projections are based on conditions/ assumptions and any change in that will change the projection. Example: Future projections of sales Sampling based conclusions are used, improper sampling leads to improper results. Random Sampling is must. 					
Data	 Quantitative Information shown as number Primary: first time collected by agency/ investigator Secondary: collected data used by different person/ agency 					
Variable	 Measurable Data – Value can vary When a variable assumes a finite or count ably infinite isolated values. Example: no. of petals in a flower, no. of road accident in locality When a variable assumes any value from the given interval (can also be in decimals, fractions). Example: height, weight, sale, money 					
Attribute	Qualitative Characteristics. Example: gender of a baby, the nationality of a person, the colour of a flower etc.					
Collection of Primary Data – Interview Method	Method Details Personal Interview • Where data is collected directly from respondents. • Highly Accurate – Low Coverage • Example: Natural Calamity, Door to Door Survey Indirect Interview • When reaching respondent is difficult, data is collected by contacting associated persons. • Highly Accurate – Low Coverage • Example: Rail accident Telephone Interview • Data is collected over phone • Quick and non-expensive method • Low Accuracy – High Coverage					
Collection of Primary Data – Mailed Questionnaire Method	 In this method well drafted and soundly sequenced questionnaire, covering all the important aspects of the data requirement is sent to respondent for filling. Here coverage is wide but amount of non-responses will be maximum 					





Collection of Primary Data – Observation Method	 In this method data is collected by direct observation or using instrument. For example: data on height and weight for a group of students. Although more accurate but it is time consuming, low coverage and laborious method. 			
Collection of Primary Data – Questionnaire Filled and sent by Enumerators	 Mix of Interview and Mailed Questionnaire Enumerator means a Person who directly interacts with respondent and fills the questionnaire. It is generally used in case of Surveys and Census. 			
Sources of Secondary Data	International SourcesWorld Health Organization (WHO), International Monetary Fund (IMF), International Labor Organization (ILO), World BankGovernment SourcesIn India – Central Statistics Office (CSO), Indian Agricultural Statistics by the Ministry of Food and Agri, National Sample Survey Office- NSSO, Regulators – RBI, SEBI, RERA, IRDAPrivate or Quasi-govt. sourcesIndian Statistical Institute (ISI), Indian Council of Agriculture, NCERT			
Scrutiny of Data	 checking accuracy and consistency of data There is no rule for it, one must apply his intelligence, patience and experience while scrutinizing the given information. Internal Consistency: When two or more series of related data are 			
Presentation of Data – Classification / Organization of Data	given, we should check consistency among them.Classification or Organisation: putting data in a neat, precise, and condensed form, making it comparable, suitable for analysis, more understandable.Chronological/ Temporal/Time Series Data• Data arranged based on Time • Example: Revenues YoY i.e year on yearGeographical or Spatial Series Data• Arrangement based on regions • Example: Country wise Revenue of a global companyQualitative or Ordinal Data• Based on some attribute • Nationality Wise Medal Winners in OlympicsQuantitative or O dympics• Based on some variable			
Mode of Presentation of Data – Textual	This method co or several para	itable mode of presentation as it is dull, monotonous		





	When data is shown in the form	n of Table .			
Mode of	 Useful in easy comparison 				
Presentation	Complicated data can be preserved	ented			
of Data –	 Table is must to create a diagra 	am			
Tabular Form	 No analysis possible without ta 	able			
	 Components of Table 	Components of Table			
	Description	Name of Component of Table			
	Entire Upper Part	Box Head			
	Upper Part describing	Caption			
Components	columns and sub-columns				
of Table	Left part of the table	Stub			
or rubto	describing rows				
	Main Data of Table	Body			
	Source of Data at the bottom	Footnote			
	of Table				
Mode of	• Can be used by educated and	uneducated section of society			
Presentation	 Hidden trend can be traced 				
of Data –	 If priority is accuracy, then table 	ulation is better			
Diagrams					
	• Time Series is generally in x axi	s			
	• For wide fluctuation – log chart	t or ratio chart is used			
Line Diagram	• Two or more series of same un	 Two or more series of same unit – Multiple Line Chart 			
	• Two or more series of different	Two or more series of different unit – Multiple Axis Chart			
	Bar means rectangle of same width and of varying length drawn				
	horizontally or vertically				
		ole or grouped bar diagrams can be			
	used				
	 For data divided into multiple of 	components – subdivided or			
	component bar diagrams				
Bar Diagram		ble, percentage bar diagrams or divided			
	bar diagrams				
	 Vertical Bar Diagram: Useful fo 	r Data varving over Time and			
	Quantitative Data				
	-	l for Data varying over Space and			
	Qualitative Data				
	Used for circular presentation	of relative data (% of whole)			
	-	nponents/segments are equated to			
	360 Degree (total angle of circl				
Pie Chart	 Segment angle = 				
		alue x 360°)			
		value)			
	(เบเลเ	valuej			





	repeated.			imes a particular		
				e which contains		_
		vats in or	ie columna	and corresponding	ng frequency in the	8
Frequency and	other.	A from to	noveliatrik	ution move had of	in ad a a	
Distribution		-	-	ution may be def of statistical dat		
		cending		or statistical dat	a, usually in an	
		-		le characteristic		
	 relating to a measurable characteristic according to individual value or a group of values of the second seco					
		-	tic under st			
	Ungrouped/			e limited number	of distinct	
	Simple				e assigned to each	, II
	Frequency		of them.			·
	Distribution			on is simple		
Types of	Grouped				ervations, groupin	ıg
Frequency	Frequency			them (generally		
Distribution	Distribution	ord			0	
		• Eac	h group is o	called as class in	terval and	
		frec	juency is as	ssigned to group	and not individual	Ĺ
		values,				
		• this	is called G	rouped Frequent	cy Distribution	
	 For a class 	interval	CL is the m	inimum and max	kimum value the	
	class inter	val may o	contain			
	 Minimum V 	Value – Le	ower Class	Limit		
Class Limit	Maximum	Value – L	Jpper Class	s Limit		
Class Linni	Class Interva	l Fre	quency	LCL	UCL	
	10-19		10	10	19	
	20-29		5	20	29	
	30-39		8	30	39	
	Mutually Exclusiv	/e /	• He	ere UCL an interv	al and LCL of next	C
	Overlapping		in	terval are same		
Classification	Classification		• Th	is is usually appl	icable for	
of Grouped of			cc	ontinuous variabl	e.	
Frequency		CL	• Ar	n observation whi	ich is equivalent to	о
Distribution		20			it is excluded from	
		30			here it is UCL and	1
	30-40 30 4	40	ta	ken in the class v	vhere it is LCL.	

Statistical Description of Data – Frequency Distribution





	Mutually	Inclusive	/	•	Ther	e is no	comm	on clas	s limit	s
	Non-Over		-	between two intervals.						
	Classifica	ation		• This is usually applicable to discrete					crete	
	Class	LCL UC	L		varia					
	10-19	10 20)	•	All o	bserva	tion in	cluding	UCL a	nd LCL
	20-19	20 30)		will	be take	n in th	e same	class	interval
	30-39	30 40)		as th	nere is	no con	fusion.		
	In case of	Exclusive	e/ (Class Bo	ounda	rv = Cla	ass Lim	nit		
	Overlapp	ing		Class	LCL	UCL	LCB	UCB		
	Classifica	-		10-20	10	20	10	20		
				20-30	20	30	20	30		
				30-40	30	40	30	40		
Class Boundary	In case of	f Inclusive	e/ L	ower C	lass B	ounda	ry			
otabo boundary	Overlapp	ing	L	CB = LO	CL-0.	5				
	Classifica	ation	L	JCB = U	ICL + C).5	A.			
				Class	LCL	UCL	LCB	UCB		
				10-19	10	19	9.5	19.5		
				20-29	20	29	19.5	29.5		
				30-39	30	39	29.5	39.5		
Mid-Point /		LCL+UC)L	0		<u> </u>	CB+U	СВ		
Class Mark /	2 2									
							-			
Mid Value of	• Us	eful in cal	culatio	on of AN	1, GM,	HM, S	_	se of gr	ouped	
Class Interval		_			1, GM,	HM, S	_	se of gr	ouped	
Class Interval Class Length/		eful in cal		tion	1, GM, 6 – LCB		_	se of gr	ouped	
Class Interval	free	eful in cal quency di	istribut	tion UCE	8 – LCB	only	D in ca			
Class Interval Class Length/	free • Les	eful in cal quency di ss than typ	istribut e: It sh	tion UCE ows no.	6 – LCB of obs	only servatio	D in ca	than U	СВ	
Class Interval Class Length/	free • Les	eful in cal quency di	istribut e: It sh	tion UCE ows no.	6 – LCB of obs	only servatio	D in ca	than U	СВ	
Class Interval Class Length/	free • Les	eful in cal quency di ss than typ	istribut e: It sh	tion UCE ows no. hows no	6 – LCB of obs	only servatic	D in ca	than U	СВ]
Class Interval Class Length/	free • Les • Mo	eful in cal quency di s than typ ore than ty	ve: It sh	UCE OWS NO. hows no B Les	5 – LCB of obs o. of ol	only servatic oservat Mo	D in ca ons less ions mo	than U ore thar To	CB n UCB	
Class Interval Class Length/ Width or Size Cumulative	 free Les Mo Class Interval 44-48	eful in cal quency di es than typ pre than ty Freq. 3	e: It sh pe: It sh pe: It s UCB 48.5	tion UCE ows no. hows no bows no bows no bows no bows ty	3 – LCB of obs o. of ol s than pe CF 3	only servatic oservat Mo	D in ca ons less ions mo re than pe CF 33	than U pre thar To bo	CB 1 UCB tal of th CF 36	
Class Interval Class Length/ Width or Size	free • Les • Mo Class Interval 44-48 49-53	eful in cal quency di s than typ pre than ty Freq. 3 4	e: It sh pe: It sh pe: It s UCB 48.5 53.5	UCE ows no. hows no bows no bows no bows ty bows	3 – LCB of obs o. of of s than pe CF <u>3</u> 7	only servatic oservat Mo	D in ca ons less ions mo re than pe CF 33 29	than Uppre than To bo	CB TUCB tal of th CF 36 36	
Class Interval Class Length/ Width or Size Cumulative	 free Les Mo Class Interval 44-48 49-53 54-58 	eful in cal quency di as than typ pre than ty Freq. 3 4 5	e: It sh pe: It sh pe: It s UCB 48.5 53.5 58.5	tion UCE ows no. hows no bows no bows no bows ty bows bows bows bows bows bows bows bows	3 – LCB of obs o. of ol s than pe CF <u>3</u> 7 12	only servatic oservat Mo	D in ca ons less ions mo re than pe CF 33 29 24	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36	
Class Interval Class Length/ Width or Size Cumulative	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63	eful in cal quency di es than typ pre than ty Freq. 3 4 5 7	e: It sh pe: It sh pe: It s 48.5 53.5 58.5 63.5	tion UCE ows no. hows no box no box ty box box box box box box box box box box	3 – LCB of obs o. of ob s than pe CF <u>3</u> 7 12 19	only servatic oservat Mo	D in ca ons less ions mo re than pe CF 33 29 24 17	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36	
Class Interval Class Length/ Width or Size Cumulative	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63 64-68	eful in cal quency di as than typ pre than ty Freq. 3 4 5 7 9	e: It sh pe: It sh pe: It s UCB 48.5 53.5 58.5 63.5 68.5	Les	3 – LCB of obs o. of of s than pe CF <u>3</u> 7 12 19 28	only servatic oservat Mo	D in ca ons less ions mo re than pe CF 33 29 24 17 8	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36 36 36	
Class Interval Class Length/ Width or Size Cumulative	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63 64-68 69-73	eful in cal quency di es than typ pre than ty Freq. 3 4 5 7 9 8	e: It sh pe: It sh pe: It s 48.5 53.5 58.5 63.5	Les	3 – LCB of obs o. of ob s than pe CF <u>3</u> 7 12 19	only servatic oservat Mo	D in ca ons less ions mo re than pe CF 33 29 24 17	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36	
Class Interval Class Length/ Width or Size Cumulative	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63 64-68	eful in cal quency di as than typ pre than ty Freq. 3 4 5 7 9	e: It sh pe: It sh pe: It s UCB 48.5 53.5 58.5 63.5 68.5	Les b b b b b b b b b b b b b b b b b b b	B – LCB of obs o. of of s than pe CF 3 7 12 19 28 36	only servatic oservat Mo ty	D in ca ons less ions mo re than pe CF 33 29 24 17 8	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36 36 36	
Class Interval Class Length/ Width or Size Cumulative Frequency Frequency	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63 64-68 69-73	eful in cal quency di es than typ pre than ty Freq. 3 4 5 7 9 8	e: It sh pe: It sh pe: It s UCB 48.5 53.5 58.5 63.5 68.5	Les bows no. hows no. bows no. bows no. bo ty bo bo bo bo bo bo bo bo bo bo bo bo bo	3 – LCB of obs o. of of s than pe CF 3 7 12 19 28 36 36	only servatic oservat Mo ty	D in ca ons less ions mo re than pe CF 33 29 24 17 8 0	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36 36 36	
Class Interval Class Length/ Width or Size Cumulative Frequency	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63 64-68 69-73	eful in cal quency di es than typ pre than ty Freq. 3 4 5 7 9 8	e: It sh pe: It sh pe: It s UCB 48.5 53.5 58.5 63.5 68.5	Les bows no. hows no. bows no. bows no. bo ty bo bo bo bo bo bo bo bo bo bo bo bo bo	3 – LCB of obs o. of of s than pe CF 3 7 12 19 28 36 36 s Frequ .ength	only servatic oservat Mo ty uncy uency	D in ca ons less ions mo re than pe CF 33 29 24 17 8 0	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36 36 36	
Class Interval Class Length/ Width or Size Cumulative Frequency Frequency Density	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63 64-68 69-73	eful in cal quency di es than typ pre than ty Freq. 3 4 5 7 9 8	e: It sh pe: It sh pe: It s UCB 48.5 53.5 58.5 63.5 68.5	Les bows no. hows no. bows no. bows no. bo ty bo bo bo bo bo bo bo bo bo bo bo bo bo	3 – LCB of obs o. of ob s than pe CF 3 7 12 19 28 36 36	only servatic oservat Mo ty uncy uency	D in ca ons less ions mo re than pe CF 33 29 24 17 8 0	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36 36 36	
Class Interval Class Length/ Width or Size Cumulative Frequency Frequency	free • Les • Mo Class Interval 44-48 49-53 54-58 59-63 64-68 69-73	eful in cal quency di es than typ pre than ty Freq. 3 4 5 7 9 8 36	e: It sh pe: It sh pe: It s 48.5 53.5 58.5 63.5 68.5 73.5	tion UCE ows no. hows no bows no bows no class Class Class Class Tota	3 – LCB of obs o. of of s than pe CF <u>3</u> 7 12 19 28 36 36 s Frequ ength s frequ I Frequ	only servatic oservat Mo ty uency of class iency	D in ca ons less ions mo re than pe CF 33 29 24 17 8 0	than Uppre than To bo	CB 1 UCB tal of th CF 36 36 36 36 36 36 36	





Percentage	$\frac{\text{Class frequency}}{100}$
Frequency	Total Frequency × 100
Frequency Dist.	It is a convenient way to represent FD
Diagram –	 Comparison between frequency of two different classes possible
Histogram	 It is useful to calculate mode also
Frequency	 Usually preferable for ungrouped frequency distribution
Polygon	 Can be used for grouped also but only if class lengths are even
Ogives/	• This graph can be made by both type of Cumulative Frequency and
Cumulative	called as Less than Ogive or More than Ogive
Frequency	 It can be used for calculating quartiles, median
	• It is a limiting form of Area Diagram (Histogram) or Frequency Polygon
Frequency	 It is obtained by drawing smooth and free hand curve though the mid
Curve	points
	Most used curve is Bell Shaped

Index Numbers

Practical Examples of Index Numbers	 Index numbers are convenient devices for measuring relative changes (generally in %) of differences from time to time or from place to place Series of numerical figures which show relative position Index Numbers show percentage changes rather than absolute amounts of change
Data Selection	 It depends on the purpose for which the index is used. Index numbers are often constructed from the sample. Random sampling, and if need be, a stratified random sampling can be used to ensure that sample is representative. Data should be comparable by ensuring consistency in selection method.
Base Period	 It is a point of reference in comparing various data. Standard point of comparison. The period should be normal. It should be relatively recent Choice of suitable base period is a temporary solution
Use of Averages	 The geometric mean is better in averaging relatives, But for most of the index's arithmetic mean is used because of its simplicity
Price/ Quantity/ Value Relative	For Individual Commodity, Current Period Price/ Quantity/ Value Base Period Price/ Quantity/ Value
Link Relative	$\frac{P_1}{P_0}, \frac{P_2}{P_1}, \frac{P_3}{P_2}, \frac{P_n}{P_{n-1}}$ Same can be created for quantities also





	When the above relatives are in respect to a fixed base period these are also			
	called the chain relatives			
Chain relatives	$P_1 P_2 P_3 P_n$			
	$\frac{P_1}{P_0}, \frac{P_2}{P_0}, \frac{P_3}{P_0}, \dots, \frac{P_n}{P_0}$			
E a marca da da m	Link relative of current year × Chain Index of previous year			
Formula for Chain Index	100			
(when direct				
data is not	The chain index is an unnecessary complication unless of course where data			
available)	for the whole period are not available or where commodity basket or the weights have to be changed.			
	Chances of errors due to Sampling			
Limitations of	 It gives broad trend not real picture 			
Index Numbers	 Due to many methods, at times it creates confusion 			
	 Index numbers are very useful in deflating (eg. Nominal wages into 			
	real)			
Usefulness of	Framing suitable policies in economics and business			
Index Numbers	They reveal trends and tendencies in making important			
muck Numbers	conclusions			
	• They are used in time series analysis to study long-term trend,			
	seasonal variations and cyclical developments			
Formula for	Deflated Value = Current Value			
Deflated Value	Deflated Value = Price Index of the current year			
Shifted Price	Original Price Index × 100			
Index	Price Index of the year on which it has to be shifted			
	This test requires that the formula should be independent of the unit			
	in which or for which prices and quantities are quoted.			
Unit Test				
Unit Test	Except for the simple (unweighted) aggregative index all other			
Unit Test	 Except for the simple (unweighted) aggregative index all other formulae satisfy this test. 			
	 Except for the simple (unweighted) aggregative index all other formulae satisfy this test. It is a test to determine whether a given method will work both ways 			
Time Reversal	 Except for the simple (unweighted) aggregative index all other formulae satisfy this test. It is a test to determine whether a given method will work both ways in time, forward and backward. 			
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Time Reversal	 Except for the simple (unweighted) aggregative index all other formulae satisfy this test. It is a test to determine whether a given method will work both ways in time, forward and backward. P₀₁ × P₁₀ = 1 			
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Time Reversal Test	 Except for the simple (unweighted) aggregative index all other formulae satisfy this test. It is a test to determine whether a given method will work both ways in time, forward and backward. P₀₁ × P₁₀ = 1 Laspeyres' method and Paasche's method do not satisfy this test, but Fisher's Ideal Formula does. This holds when the product of price index and the quantity index should be equal to the corresponding value index. 			
Time Reversal Test Factor Reversal	 Except for the simple (unweighted) aggregative index all other formulae satisfy this test. It is a test to determine whether a given method will work both ways in time, forward and backward. P₀₁ × P₁₀ = 1 Laspeyres' method and Paasche's method do not satisfy this test, but Fisher's Ideal Formula does. This holds when the product of price index and the quantity index should be equal to the corresponding value index. Symbolically 			
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Time Reversal Test Factor Reversal	 Except for the simple (unweighted) aggregative index all other formulae satisfy this test. It is a test to determine whether a given method will work both ways in time, forward and backward. P₀₁ × P₁₀ = 1 Laspeyres' method and Paasche's method do not satisfy this test, but Fisher's Ideal Formula does. This holds when the product of price index and the quantity index should be equal to the corresponding value index. Symbolically P₀₁ × Q₀₁ = V₀₁ Fisher's Index Number is ideal as it satisfies Unit, Time Reversal and 			
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	 The weighted GM of relative, simple geometric mean of price relatives and the weighted aggregative with fixed weights meet this test. (These methods are not in syllabus)
Cost of Living Index (also called General Index)	 CLI is defined as the weighted AM of index numbers of few groups of basic necessities. AM of group indices gives the General Index Generally, for calculating CLI; food, clothing, house rent, fuel & lightning and miscellaneous groups are taken into consideration. Examples of CLI: WPI, CPI, etc.
Symbol	 P₀₁ is the index for time 1 on 0 P₁₀ is the index for time 0 on 1

Measures of Central Tendency

Arithmetic Mean

Property 1	If all the observations are constant, AM is also constant				
Property 2	the algebraic sum of deviations of a set of observations from their				
	AM is zero				
Property 3	AM is affected both due to change of origin and scale				
Fillenty 5	If $y=a+bx$ then $\overline{y}=a+b\overline{x}$				
	Combined AM				
Property 4	$\overline{\mathbf{x}}_{c} = \frac{\mathbf{n}_{1}\overline{\mathbf{x}}_{1} + \mathbf{n}_{2}\overline{\mathbf{x}}_{2}}{\mathbf{n}_{1} + \mathbf{n}_{2}}$				
	 AM is best measure of central tendency AM is based on all observations 				
General Review	AM is affected by sampling fluctuations				
	AM is amenable to mathematical property				
	AM cannot be used in case of open end classification				

Median

Property 1	For a set of observations, the sum of absolute deviations is minimum, when the deviations are taken from the median. $\sum \mathbf{x}_i - \mathbf{M}\mathbf{e} $	
Property 2	Median is also affected by both change of origin and scale.	
General Review	 Median is also called as positional average Median is not based on all observations Median is not affected by sampling fluctuations Median is best measure of central tendency in case of open end classification 	



Partition Values

	 observatio When we want two equal provide the second s	be defined as va l ns into number o rant to divide the parts, we conside eciles, percentile	of equal parts given set of obs r median, simil	ervations into
Meaning	Name of PV	No. of equal parts	No. of PVs	Symbol
	Median	2	1	Ме
	Quartile	4	3	Q_1, Q_2, Q_3
	Decile	10	9	D ₁ ,D ₂ ,,D ₉
	Percentile	100	99	P ₁ , P ₂ ,, P ₉₉

Mode – Concept/ Formula

Meaning	Mode is the value that occurs the maximum number of times	
Special Thing about Mode	 If two or more observations are having maximum frequency then there are multiple modes [multimodal distribution] If there are exactly two modes then distribution is called as Bimodal Distribution If all observations are having same frequency then distribution has no mode We can say that Mode is not rigidly defined 	
Property 1	If all the observations are constant, mode is also constant	
Property 2	Mode is also affected both due to change of origin and scale	
General Review	 Mode is not based on all observations Mode is not rigidly defined Mode is not amenable to Mathematical Property 	

Relationship between Mean, Median and Mode

In case of Symmetric Distribution	Mean = Median = Mode
In case of Moderately Skewed Distribution (Empirical relationship)	Mean – Mode = 3 (Mean – Median)

Geometric Mean

Definition	For a given set of <i>n</i> positive observations , the geometric mean is
	defined as the n^{th} root of the product of the observations





Property 1	Logarithm of G for a set of observations is the AM of the logarithm of the observations $\log G = \frac{1}{n} \sum \log x$
Property 2	If all the observations are constant, GM is also constant
Property 3	GM of $z = GM$ of $x \times GM$ of y
Property 4	$GM \text{ of } z = \frac{GM \text{ of } x}{GM \text{ of } y}$

Harmonic Mean

Definition	For a given set of non-zero observations, harmonic mean is defined as the reciprocal of the AM of the reciprocals of the observation
Property 1	If all observations are constant HM is also constant

Use of GM and HM

Both	Both are used for calculating average rates
GM	Appropriate for rates having percentages
НМ	Appropriate for rates other than percentages

Measures of Dispersion

Meaning of Measure of Dispersion	 Dispersion for a given set of observations may be defined as the amount of deviation of the observations, usually, from an appropriate measure of central tendency 	
Types of Measure of Dispersion	 Absolute These are with units These are not useful for comparison of two variables with different units. Example: Range, Mean Deviation, Standard Deviation, Quartile Deviation 	
	 Relative These are unit free measures Measures of Dispersion These are useful for comparison of two variables with different units. Example: Coefficient of Range, Coefficient of Mean Deviation, Coefficient of variation, Coefficient of Quartile Deviation 	

Range





Property 1	Not affected by change of origin
	 Affected by change of scale (only value)
	No impact of sign of change of scale
	• Note: Measure of Dispersion can never be negative
General Review	Not Based on All Observations
	Easy to Compute

Mean Deviation

Meaning	Mean deviation is defined as the
	• arithmetic mean of the
	absolute deviations of the observations
	• from an appropriate measure of central tendency
Property 1	Mean Deviation takes its minimum value when deviations are
Property 1	taken from Median
Bronorty O	Change of Origin – No Affect , Change of Scale – Affect of value
Property 2	not sign
General Review	Based on all observations
	Improvement over Range
	Difficult to compute
	Not amenable to Mathematical Property because of
	usage of Modulus

Standard Deviation

Meaning	Improvement over Mean Deviation
	 It is defined as the root mean square deviation when the
	deviations are taken from the AM of the observations
Coefficient of Variation	$\frac{SD_x}{\overline{x}} \times 100$
SD for any two numbers	$SD = \frac{ a-b }{2}$
SD for first n natural numbers	$s = \sqrt{\frac{n^2 - 1}{12}}$
Property 1	If all the observations are constant, SD is ZERO
Property 2	No effect of change of origin but affected by change of scale in the magnitude (ignore sign)
Property 3	$SD_{c} = \sqrt{\frac{n_{1}s_{1}^{2} + n_{2}s_{2}^{2} + n_{1}d_{1}^{2} + n_{2}d_{2}^{2}}{n_{1} + n_{2}}}$ $d_{1} = \overline{x}_{c} - \overline{x}_{1}$ $d_{2} = \overline{x}_{c} - \overline{x}_{2}$





Quartile Deviation

Meaning	It is semi-inter quartile range	
General Review	 It is the best measure of dispersion for open-end classification It is also less affected due to sampling fluctuations Like other measures of Dispersion, QD is also not affected by change of origin but affected by scale ignoring sign 	

Correlation and Regression

Bivariate Data

Definition	 When data are collected on two variables simultaneously, they are known as bivariate data and the corresponding frequency distribution, derived from it, is known as Bivariate Frequency Distribution
Marginal Distribution	 It is the frequency distribution of one variable (x or y) across the other variable's full range of values Number of Marginal Distribution = 2
Conditional Distribution	 It is the frequency distribution of one variable (x or y) across a particular sub-population of the other variable. No. of Conditional Distributions = m + n m = no. of class interval of x n = no. of class interval of y

Scatter Diagram

	 It helps us to find Nature and Relative Strength of Correlation
Concept Points	It is useful for Non-Linear Correlation also
	It cannot be used to determine value
	Diagrams are time taking

Karl Pearson's Correlation Coefficient

How to Calculate	Correlation Coefficient is the ratio of covariance with product of		
	standard deviations		
Property 1	The Coefficient of Correlation is a unit-free measure		
Property 2	Value lies from -1 to +1		
	Change of	No impact	
	Origin		
Property 3	Change of	No impact of value, but if change of scale of	
	Scale	both variables are of different sign then sign	
		of r will also change	





	Value of r	Interpretation
	-1	Perfect Negative
	Between -1 and 0	Negative
	Closer to -1	Strong Negative
Interpretation of Value	Far from -1	Weak Negative
of r	0	No Correlation
	Between 0 and 1	Positive
	Far from +1	Weak Positive
	Near to +1	Strong Positive
	+1	Perfect Positive

Spearman's Rank Correlation Coefficient

Usage	 find the level of agreement (or disagreement) between two judges so far as assessing a qualitative characteristic (attribute) is concerned Use in case of ranks 	
Ranking in case of Tie	ie In case of tie, simple average of ranking should be assigned to tied values	

Coefficient of Concurrent Deviations

lloogo	A very quick, simple and casual method of finding correlation
Usage	when we are not serious about the magnitude of the two variables

Regression Basics

Meaning	Estimation of one variable for a given value of another variable on the basis of an average mathematical relationship between the two variables • Estimation of Y when X is given		
Requirements	Estimation of X when Y is given		
General Points	Perfect Correlation• When linear relationship exists between two variables, correlation is perfect.• Perfect Correlation is represented by a linear equation and this equation can be used for regression purpose directly. • Same equation can be used in both ways		
	Imperfect CorrelationIn case of imperfect correlation there is no definite line and equation•We will use method of least square to estimate both regression lines		





Formula of Regression Equations/ Lines	Estimation of Y when X is given• Use Regression line of Y on X • Equation Format: $Y - \overline{Y} = b_{yx}(X - \overline{X})$ 		
Property 1	Change of Origin and Scale • Origin: No Impact • Scale: If original pair is x, y and modified pair is u, v $b_{yu} = b_{yx} \times \frac{\text{change of scale of y}}{\text{change of scale of x}}$ $b_{uv} = b_{xy} \times \frac{\text{change of scale of x}}{\text{change of scale of y}}$		
Property 2	Two regression lines (if not identical) will intersect at the point [means] (\bar{x}, \bar{y})		
Property 3	Relation between Correlation and Regression Coefficients $r_{xy} = \pm \sqrt{b_{xy} \times b_{yx}}$ r_{xy}, b_{xy}, b_{yx} will always have same sign		

Coefficient of Determination and Non-Determination

Coefficient of Determination Accounted Variance/ Explained Variance	r ²
Coefficient of Non-Determination	4 2
Unaccounted Variance/ Unexplained Variance	1-r ²



Theory MCQs

Chapter 13: Statistical Description of Data

Basics of Statistics - PYQs

	PYQ May 18
(1) D	Divided bar chart is considered for a. Comparing different components of a variable
	b. The relation of different components to the table
	c. (a) or (b) d. (a) and (b)
	u. (a) and (b) PYQ Nov. 18
(2)	Data are said to beif the investigator himself is responsible for the collection
A	of the data.
	a. Primary data
	b. Secondary data
	c. Mixed of primary and secondary data
	d. None of these PYQ Nov. 18
(3)	A suitable graph for representing the portioning of total into sub parts in statistics is:
(c) A	a. A Pie chart
	b. A pictograph
	c. An ogive
	d. Histogram
	PYQ Nov. 20
(4)	The average of salaries in a factory is ₹ 47,000. The statement that the average salary
A☆	₹47,000 is
	a. Descriptive Statistics
	h Inferențial
	b. Inferential c. Detailed
	b. Inferentialc. Detailedd. Undetailed
	c. Detailed
(5)	c. Detailed d. Undetailed
(5) B	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative
	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative
	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual
	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual d. Undetailed
В	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual
	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual d. Undetailed PYQ Nov. 20
В (6)	 c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual d. Undetailed PYQ Nov. 20
В (6)	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual d. Undetailed PYQ Nov. 20 Sweetness of a sweet dish is: a. Attribute b. Discrete variable c. Continuous variable
В (6)	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual d. Undetailed PYQ Nov. 20 Sweetness of a sweet dish is: a. Attribute b. Discrete variable c. Continuous variable d. Variable
В (6)	c. Detailed d. Undetailed PYQ Nov. 20 Statistics cannot deal with data. a. Quantitative b. Qualitative c. Textual d. Undetailed PYQ Nov. 20 Sweetness of a sweet dish is: a. Attribute b. Discrete variable c. Continuous variable





Α	 a. Secondary b. Primary c. Organize d. Confidential
(8) ☆ A	PYQ Nov. 20 You are an auditor of a firm and the firm earns a profit of ₹ 67,000 you stated to them that the annual profit is ₹ 67,000. This is type of statistics. a. Descriptive b. Detailed c. Non detailed d. Inferential
(9) C ☆	PYQ Nov. 20 The are used usually when we wants to examine the relationship between two variables. a. Bar Graph b. Pie Chart c. Line Chart d. Scatter Plot
(10) C	PYQ Nov. 20 When data are classified according to one criterion, then it is called classification. a. Quantitative b. Qualitative c. Simple d. Factored
(11) D	PYQ Jan. 21 A bar chart is drawn for a. Continuous data b. Nominal data c. Time series data d. Comparing different components
(12) D	PYQ Jan. 21A tabular presentation can be used fora.Continuous series datab.Nominal datac.Time series data for longer periodd.Comparison of Data
(13) B	PYQ Jan. 21 A variable with qualitative characteristic is a. Quality variable b. An attribute c. A discrete variable d. A continuous variable
(14) A	PYQ Jan. 21 The accuracy and consistency of data can be verified by a. Scrutiny b. Internal Checking c. External Checking d. Double Checking





					PYQ Jan. 21
(15)	The left part of a	a table providing the	description of	rows is called.	
С	a. Cap	otion	b.	Box – head	
	c. Stul	b	d.	Body	
					PYQ Jan. 21
(16)	Sweetness of s	weet dish is.			
А		attribute			
		iscrete variable			
		ontinuous variable			
	d. A va	ariable			
					PYQ July 21
(17)		s separating items ac	cording to sim	ilar characteristi	cs grouping them
A	into various cla	isses:			
☆					
		ssification			
		ting			
	•	paration			
	d. Tab	oulation			DVO July 04
(10)	In graphical ran	recontation of data	idoographa ara		PYQ July 21
(18) -^-	in graphicat rep	presentation of data,	ideographs are	e also called as:	
☆	- Diet	ta success			
D		to-graphs			
	-	mmetry graphs			
	-	nmetry graphs tograms			
	u. Fici	logiallis			PYQ July 21
				and the state of	110,500,21
(19)	A graph that use	es vertical bars to re-	oresent data is	called a:	
(19) D	A graph that use	es vertical bars to re	oresent data is	called a:	
(19) D			present data is	called a:	
	a. Line	e graph	oresent data is	called a:	
	a. Line b. Sca	e graph atter plot	oresent data is	called a:	
	a. Line b. Sca c. Ver	e graph	oresent data is	called a:	
	a. Line b. Sca c. Ver	e graph atter plot tical graphs	oresent data is	called a:	PYQ July 21
	a. Line b. Sca c. Ver d. Bar In a graphical re	e graph atter plot tical graphs graph epresentation of data	a, the largest n	umerical value is	45, the smallest
D	a. Line b. Sca c. Ver d. Bar In a graphical re	e graph atter plot tical graphs ⁻ graph	a, the largest n	umerical value is	45, the smallest
D (20)	a. Line b. Sca c. Ver d. Bar In a graphical re	e graph atter plot tical graphs graph epresentation of data	a, the largest n	umerical value is	45, the smallest
D (20)	a. Line b. Sca c. Ver d. Bar In a graphical re numerical value	e graph atter plot tical graphs graph epresentation of data	a, the largest ni sired are 4 ther	umerical value is which class inte	45, the smallest erval is:-
D (20) B	a. Line b. Sca c. Ver d. Bar In a graphical re numerical value a. 45 c. 20	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des	a, the largest ni sired are 4 ther b. d.	umerical value is which class inte 5 7.5	45, the smallest
D (20) B (21)	a. Line b. Sca c. Ver d. Bar In a graphical re numerical value a. 45 c. 20	e graph atter plot tical graphs graph epresentation of data	a, the largest ni sired are 4 ther b. d.	umerical value is which class inte 5 7.5	45, the smallest erval is:-
D (20) B	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the	a, the largest ni sired are 4 ther b. d.	umerical value is which class inte 5 7.5	45, the smallest erval is:-
D (20) B (21)	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected a. Prin	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the o mary data	a, the largest ni sired are 4 ther b. d.	umerical value is which class inte 5 7.5	45, the smallest erval is:-
D (20) B (21)	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected a. Prin b. Unc	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the mary data classified data	a, the largest ni sired are 4 ther b. d.	umerical value is which class inte 5 7.5	45, the smallest erval is:-
D (20) B (21)	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected a. Prin b. Uno c. San	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the mary data classified data mple data	a, the largest ni sired are 4 ther b. d.	umerical value is which class inte 5 7.5	45, the smallest erval is:-
D (20) B (21)	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected a. Prin b. Uno c. San	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the mary data classified data	a, the largest ni sired are 4 ther b. d.	umerical value is which class inte 5 7.5	45, the smallest erval is:- PYQ July 21
D (20) B (21) D	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected a. Prin b. Uno c. San d. Sec	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the mary data classified data mple data condary data	a, the largest no sired are 4 ther b. d. census reports	umerical value is which class inte 5 7.5 are:	45, the smallest erval is:-
D (20) B (21) D	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected a. Prin b. Uno c. San d. Sec	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the mary data classified data mple data	a, the largest no sired are 4 ther b. d. census reports	umerical value is which class inte 5 7.5 are:	45, the smallest erval is:- PYQ July 21
D (20) B (21) D	a. Line b. Sca c. Veri d. Bar In a graphical re numerical value a. 45 c. 20 Data collected a. Prir b. Uno c. San d. Sec	e graph atter plot tical graphs graph epresentation of data e is 25. If classes des on religion from the mary data classified data mple data condary data	a, the largest no sired are 4 ther b. d. census reports	umerical value is which class inte 5 7.5 are:	45, the smallest erval is:- PYQ July 21





b. Unclassified data c. Sample data	
c. Sample data	
d. Secondary data	
	PYQ July 21
(23) Which of the following diagram is the most appropriate to repre	esents various heads in
A total cost?	
a. Pie chart	
b. Bar graph	
c. Multiple Line chart	
d. None	
	PYQ Dec. 21
(24) A national institute arranged its student's data in accordance w	
B This arrangement of data is known as	
a. Temporal Data	
b. Geographical Data	
c. Ordinal Data	
d. Cardinal Data	
	PYQ Dec. 21
(25) Multiple axis line chart is considered when	110 000.21
b. The units of the variables are different	
c. In any case	
d. If there are more than one time series and unit of va	
	PYQ June 22
(26) If data is collected from a census Report. What type of data it is	5:-
c	3:-
c a. Time series data	3:-
C a. Time series data b. Primary data	3:-
C a. Time series data b. Primary data c. Secondary data	3:-
C a. Time series data b. Primary data	5:-
C a. Time series data b. Primary data c. Secondary data	S:- PYQ June 22
C a. Time series data b. Primary data c. Secondary data	
C a. Time series data b. Primary data c. Secondary data d. Geographical data	
a. Time series data b. Primary data c. Secondary data d. Geographical data	
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a.	
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a.	PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a. Attribute b. Quantity c. Quality d. a or c	PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a. Attribute b. Quality d. d. a or c	PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) D Sweetness is an D a. Attribute b. Quantity c. Quality d. d. a or c U U D Which of the following is not a way of Presenting data?	PYQ June 22
Ca.Time series data b.Primary data c.Secondary data d.Secondary data d.Primary data c.Primary data 	PYQ June 22
Ca.Time series data b.Primary data c.Secondary data d.Secondary data d.Primary datac.Secondary data d.Geographical dataVertical data(27)Sweetness is an UVertical dataDa.Attribute Qualityb.Quantity d.CQualityd.a or c(28)Which of the following is not a way of Presenting data?Attribute DDa.Tabular form b.Textual form c.Vertical form Graphical form	PYQ June 22
Ca.Time series data b.Primary data c.Secondary data d.Secondary data d.Primary data c.Primary data<	PYQ June 22 PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) D a. Attribute b. Quality d. a Attribute c. Quality d. a or c (28) Which of the following is not a way of Presenting data? D a. a. Tabular form b. Textual form c. Graphical form d. Regression analysis	PYQ June 22 PYQ June 22 PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a. Attribute c. Quality d. a or c (28) Which of the following is not a way of Presenting data? D a. Tabular form b. Textual form c. Graphical form d. Regression analysis	PYQ June 22 PYQ June 22 PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a. Attribute b. Quality d. a or c (28) Which of the following is not a way of Presenting data? D a. Tabular form b. Textual form c. Graphical form d. Regression analysis	PYQ June 22 PYQ June 22 PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a. Attribute b. Quantity c. Quality d. a or c (28) Which of the following is not a way of Presenting data? D a. Tabular form b. Textual form c. Graphical form d. Regression analysis (29) Which of the following does not form characteristics in dividing the following does not form characteristics in dividing the following audition form a. No. of auditors auditing Accounts.	PYQ June 22 PYQ June 22 PYQ June 22
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a. Attribute b. Quality d. c. Quality d. a or c (28) Which of the following is not a way of Presenting data? D a. a. Tabular form b. Textual form c. Graphical form d. Regression analysis (29) Which of the following does not form characteristics in dividing ☆ D a. No. of auditors auditing Accounts. b. No. of files audited by auditor	PYQ June 22 PYQ June 22 PYQ June 22 the data?
C a. Time series data b. Primary data c. Secondary data d. Geographical data (27) Sweetness is an D a. Attribute b. Quantity c. Quality d. a or c (28) Which of the following is not a way of Presenting data? D a. Tabular form b. Textual form c. Graphical form d. Regression analysis (29) Which of the following does not form characteristics in dividing the following does not form characteristics in dividing the following audition form a. No. of auditors auditing Accounts.	PYQ June 22 PYQ June 22 PYQ June 22 the data?





			PYQ June 22
(30)	Which one is resear	ch data?	
${\swarrow}$		e and Continuous	
В		tive and Quantitative	
		ed and Unprocessed	ta
	d. Organis	e and unorganised da	PYQ Dec 22
(31)	Which one of the fo	llowing is a source of	
D		0	
		ment Records	
		ch Articles	
	c. Journals d. Questio		oratora
	u. Questio	nnaire filled by Enum	PYQ Dec 22
(32)	Which is the left par	rt of table providing de	escription of the rows?
Ċ			
	a. Caption	1	
	b. Box Hea	ad	
	c. Stub		
	d. Body		PYQ Jun 23
(33)	The share holding p	attern of ABC Ltd. is a	
B	Share holders	No. of shares in	
	Share notders	Millions	•
	Promoter	120	
	FII	25	-
	DII	20	What is the difference between central
	Govt	20	angles (in degree) for shares held by Promoters and Public, in pie chart?
	Public	15	
	a. 216		_
	b. 189		
	c. 180		
	d. 99		
	What does not Ori		PYQ Jun 23
(34) A	What does an Ogive	e curve represent? nulative frequency an	d class boundary
A		juency and class bour	-
		juency and cumulativ	-
		juency and class inter	
			PYQ Jun 23
(35)	The following is the	data related to the da	ily income of 86 persons:
Α	Income in ₹	No. of persons:	
	500-999	15	
	1000-1499	28	
	1500-1999	36	





	2000-2499 7	
	What is the percentage of persons earning at least ₹ 1,500 per day?	
	a. 50% b. 45%	
	c. 40% d. 60%	
		PYQ Jun 23
(36)	For tabulation, 'caption' is	
A	a. The upper part of the table	
	b. The lower part of the table	
	c. The main part of the table	
	d. The upper part of a table that describes the rows and sub-	rows
		PYQ Sep 24
(37) B	The secondary data is collected by:	
. ,	a. Observation method	
	b. International source like World Bank	
	c. Interview method	
	d. Mailed questionnaire method	
		PYQ Sep 24
(38) B	Exit polls are an example of which method of collecting data?	
. ,		
	a. Investigation	
	b. Random sampling	
	c. Census	
	d. Quota sampling	
		PYQ Sep 24
(39) C	Numerical data presented in descriptive form are called:	
	a. Tabular presentation	
	b. Classified presentation	
	c. Textual presentation	
	d. Graphical presentation	
		PYQ Sep 24
(40) A	What type of data is most appropriate for representing using a Pie-c	hart?
	a. Categorical data	
	b. Continuous data	
	c. Ordinal data	
	d. Interval data	

Basic of Statistics - MTPs

			MTP May 18
(1)	Statisti	cs is concerned with	
D	а.	Qualitative information	
	b.	Quantitative information	
	с.	a or b	
	d.	Both a & b	



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	MTP Nov 18
(3)☆	The technician of graphic presentation is extremely helpful in which of the following
А	a. Analysing the changes at different points of Time
	b. Analysing cause and effect relationship
	c. Analysing proportional relationship
	d. Analysing the degree of relationship
	MTP Nov 18
(4)	Statistics Analyses:
В	a. Qualitative
	b. Quantitative
	c. Either Qualitative or Quantitative
	d. Quantitative and Qualitative
	MTP Nov 19
(11)B	The number of times a particular item occurs in a given data is called its
	a. Variation
	b. Frequency
	c. Cumulative Frequency
	d. None of these
	MTP Nov 20
(12)	The most appropriate diagram to represent the data relating to the monthly
В	expenditure on different items by a family is ?
	a. Histogram
	b. Pie-diagram
	c. Frequency polygon
	d. Line graph
	MTP Nov 21
(14)C	Which of the following is not an example of continuous variable?
	a. Temperature in India
	b. Profit of Company X
	c. Number of road accidents
	d. A person's height
	MTP Dec 22 Series II
(20)	A suitable graph for representing the portioning of total into sub parts in statistics is:
В	a. A Pictograph b. A Pie Chart
	c. An Ogive d. A Histogram
(0.1)	MTP June 2023 Series I
(21)	The most accurate mode of data presentation is:
В	a. Diagrammatic b. Tabulation
	c. Textual presentation d. None of these
(02)	A tabular presentation can be used for
(23)	A tabular presentation can be used for
D	a. Continuous data
	b. Nominal data
	c. Time Series data
	d. Comparing different components
	MTP Dec 2023 Series I
(0.4)	
(24) C	When data are classified according one criterion, then it is calledclassificationa.Quantitativeb.Qualitative





	с.	Simple	d.	Factored
				MTP Dec 2023 Series II
(27) B		ents are classified into male/fem classification is Cardinal data Ordinal data Spatial Series data Temporal data	nale and	graduate/non-graduate classes.
			_	MTP June 24 Series I
(28) B	Which o a. b. c. d.	f the following statement is true Statistics is derived from the Statistics is derived from the Statistics is derived from the None of these	French Italian v	word 'Statista'
				MTP June 24 Series III
(35)C	The pair a. b. c. d.	of averages whose value can be Mean and Median Mode and Mean Mode and Median None of these	determ	ined graphically.
				MTP Sep 24 Series I
(37)C	The follo a. b. c. d.	wing set of data cannot be pres The heights of students desc The weights of candidates e The amount of rainfall opine The number of bills per day o	cribed in kpressed d as "me	centimeters d in kilograms edium", "average", "heavy", etc.
				MTP 1 Jan 25
(38) C	A table h a. b. c. d.	nas parts Four Two Five None		
(20)	Column	headings are known as		MTP 1 Jan 25
(39) D	a. b. c. d.	headings are known as Body Stub Box-Head Caption		
(40)	Arrondo	the dimensions of Par diagram	Cubadi	MTP 1 Jan 25
(40) C	Arrange Sequenc a. b. c. d.	the dimensions of Bar diagram, ce 1, 2, 3 2, 1, 3 2, 3, 2 3, 2, 1	Cube di	agram, Pie diagram in



Frequency Distribution – PYQs

		PYQ May 18
(1)	Frequency density is used in the construction of	
A	a. Histogram	
	b. Ogive	
	c. Frequency polygon	
	d. None when the classes are of unequal width.	
		PYQ Nov. 18
(2)	The following frequency distribution is classified as	
В	X 12 17 24 36 45	
	F 2 5 3 8 9	
	a. Continuous distribution	
	b. Simple Frequency Distribution	
	c. Cumulative frequency distribution	
	d. None of these	
		PYQ Nov. 18
(3)	Histogram is useful to determine graphically the value of	
С		
	a. Arithmetic mean	
	b. Median	
	c. Mode	
	d. None of these	
		PYQ Nov. 18
(4)	The number of times a particular items occurs in a class interval is calle	ed its:
В		
	a. Mean	
	b. Frequency	
	c. Cumulative frequency	
	d. None of these	
		PYQ Nov. 18
(5)	An ogive is a graphical representation of	
A	a. Cumulative frequency distribution	
	b. A frequency distribution	
	c. Ungrouped data	
	d. None of these	DVO Next 40
(6)	Class 0-10 10-20 20-30 30-40 40-50	PYQ Nov. 18
(6)		
С	Freq. 4 6 20 8 3	
	For the class 20-30. Cumulative frequency is:	
	a. 10 b. 26	
	c. 30 d. 41	
(7)	Which of the following graph is suitable for sumulative fragments distrib	PYQ June 19
(7)	Which of the following graph is suitable for cumulative frequency distrib	
Α	a. 'O'give b. Histogram c. G.M d. A.M	
	c. G.M d. A.M	PYQ June 19
(8)	Histogram can be shown as	
(8)	Histogram can be shown as	





В	a.	Ellipse	b.	Rectangle	
5	с.	Hyperbola	d.	Circle	
					PYQ June 19
(9)		Series is continuous.			-
В	a.	Open ended			
	b.	Exclusive			
	с.	Close ended			
	d.	Unequal call intervals			
					PYQ June 19
(10)		raph is used for finding			
С	а.	Mean	b.	Mode	
	С.	Median	d.	None of these	DVO huma 40
(11)	Histor	rom is used for finding			PYQ June 19
(11) A		am is used for finding Mode	b.	Mean	
A	а. с.	First quartile	b. d.	None of these	
	υ.	First qualitie	u.	None of these	PYQ Nov. 19
(12)	The gra	phical representation of cumu	lative frequ	ency distribution is	
C	ino Sia				outtou.
•	a.	Histogram			
	b.	Historiagram			
	с.	Ogive			
	d.	None of these			
					PYQ Nov. 20
(13)	Types o	of cumulative frequencies are:			
(13) B	Types c a.	1	b.	2	
			b. d.	2 4	
В	a. c.	1 3	d.	4	PYQ Jan. 21
B (14)	a. c.	1	d.	4	PYQ Jan. 21
В	a. c. From a	1 3 histogram one cannot compu	d.	4	PYQ Jan. 21
B (14)	a. c. From a a.	1 3 histogram one cannot compu Mode	d.	4	PYQ Jan. 21
B (14)	a. c. From a a. b.	1 3 histogram one cannot comput Mode Standard deviation	d.	4	PYQ Jan. 21
B (14)	a. c. From a a. b. c.	1 3 histogram one cannot comput Mode Standard deviation Median	d.	4	PYQ Jan. 21
B (14)	a. c. From a a. b.	1 3 histogram one cannot comput Mode Standard deviation	d.	4	
B (14) B	a. c. From a a. b. c. d.	1 3 histogram one cannot comput Mode Standard deviation Median Mean	d.	4	PYQ Jan. 21 PYQ Jan. 21
B (14) B (15)	a. c. From a a. b. c. d. Mode c	1 3 histogram one cannot compu- Mode Standard deviation Median Mean	d.	4	
B (14) B	a. c. From a a. b. c. d. Mode c a.	1 3 histogram one cannot compu- Mode Standard deviation Median Mean :an be obtained from Frequency polygon	d.	4	
B (14) B (15)	a. c. From a a. b. c. d. Mode c	1 3 histogram one cannot compu- Mode Standard deviation Median Mean	d.	4	
B (14) B (15)	a. c. From a a. b. c. d. Mode c a. b.	1 3 histogram one cannot comput Mode Standard deviation Median Mean tean be obtained from Frequency polygon Histogram	d.	4	
B (14) B (15)	a. c. From a a. b. c. d. Mode c a. b. c.	1 3 histogram one cannot comput Mode Standard deviation Median Mean tan be obtained from Frequency polygon Histogram Ogive	d.	4	
B (14) B (15)	a. c. From a a. b. c. d. Mode c a. b. c. c. d.	1 3 histogram one cannot comput Mode Standard deviation Median Mean tan be obtained from Frequency polygon Histogram Ogive All of the above	d. te the appro-	4 oximate value of	PYQ Jan. 21
В (14) В (15) В	a. c. From a a. b. c. d. Mode c a. b. c. d. d. Most of a.	1 3 histogram one cannot comput Mode Standard deviation Median Mean tean be obtained from Frequency polygon Histogram Ogive All of the above	d. te the appro-	4 oximate value of	PYQ Jan. 21
В (14) В (15) В (16)	a. c. From a a. b. c. d. Mode c a. b. c. c. d. d.	1 3 histogram one cannot comput Mode Standard deviation Median Mean an be obtained from Frequency polygon Histogram Ogive All of the above f the Commonly used distribut Bell – shaped U Shaped	d. te the appro-	4 oximate value of	PYQ Jan. 21
В (14) В (15) В (16)	a. c. From a a. b. c. d. Mode c a. b. c. d. C. d. Most of a. b. c. d.	1 3 histogram one cannot comput Mode Standard deviation Median Mean tan be obtained from Frequency polygon Histogram Ogive All of the above f the Commonly used distribut Bell – shaped U Shaped J – Shaped Curve	d. te the appro-	4 oximate value of	PYQ Jan. 21
В (14) В (15) В (16)	a. c. From a a. b. c. d. Mode c a. b. c. d. c. d. Most of a. b.	1 3 histogram one cannot comput Mode Standard deviation Median Mean an be obtained from Frequency polygon Histogram Ogive All of the above f the Commonly used distribut Bell – shaped U Shaped	d. te the appro-	4 oximate value of	PYQ Jan. 21





(18) Frequency density of a class interval is the ratio of D a. Class frequency to the total frequency b. Class length to class frequency c. Class frequency to the cumulative frequency d. Frequency of that class interval to the corresponding class length (19) Ogive curves are used to determine B a. Mean c. Mode d. Range	PYQ July 21 ogth. PYQ Dec. 21 PYQ June 22
(19)Ogive curves are used to determineBa.Meanb.Medianc.Moded.Range	
c. Mode d. Range	YQ June 22
יק	YQ June 22
	TQ Julie 22
(20) Less than 'o' give curve give-	
B a. Mean b. Median	
c. Mode d. M D	
(21) Histogram can be drawn when D	PYQ June 22
a. Class interval are equalb. Class interval are unequal	
c. Frequency of class interval are equal	
d. None of these	
	PYQ June 22
 (22) If the cumulative frequency are plotted on axis then which type of curve is f A Ogive Frequency curve Histogram Frequency Polygon 	
	PYQ Dec 22
(23) The suitable formula for computing the number of class intervals is (N is toC frequency)	าสเ
\bigstar a. 3.322 logN b. 0.322 logN	
c. 1 + 3.322 logN d. 1 – 3.322 logN	
Note: Out of Syllabus	
	PYQ Dec 22
(24) Ogive for more than type and less than type distributions intersect atB a. Mean b. Median	
c. Mode d. Origin	
5	PYQ July 21
(25) The modes of presentation of data are:	
C a. Textual, Diagrammatic and Internal presentation	





	b. Tabular	, Textual and Inter	nal presenta	ation	
	c. Textual,	Tabular and Diag	rammtic pre	esentation	
	d. Tabular	, Diagrammatic ar	nd Internal P	resentation	
					PYQ Dec 23
(26) B	The frequency of v below:	isitor in an office i	s given		
	Time	Frequency			
	9 AM-11 AM	5			
	11 AM-1 PM	18			
	1 PM-3 PM	7			
	3 PM-5 PM	12			
	Find the cumulativ		sitors		
	for the time 11AM	– 1PM?			
	a. 5		b.	23	
	c. 18		d.	30	
(07)	Du platting summer	ivo froguera	inot the reco		PYQ Dec 23
(27) B	By plotting cumulat	ive frequency aga	inst the resp	Dective class bo	bundary, we get
D	a. Frequer	ncy curve			
	b. Ogives				
	-	ncy polygon			
	d. Histogra				
	4. 1100051				PYQ Dec 23
(28)	In a cumulative free	uency curve, wha	it is represer	nted on the Y-a	
B					
	a. Class ir	nterval	/		
	b. Cumula	ative frequency			
		ncy density			
	d. Relative	efrequency			
					PYQ Dec 23
(29)	In a frequency distr	ibution, the relativ	e frequency	of the class is:	:
В		6 H H 6			C 1
		o of the class freq	-		
		o of the class freq	-		-
		o of the class freq o of the class mid	-		•
	u. merau			class nequenc	PYQ Dec 23
(30)	Frequency density of	corresponding to	a class inter	val is ratio of	
(00) A					
	a. Class fr	equency to class	length		
		equency to total f	-		
		equency to cumu		ency	
	d. Class le	ength to class freq	uency		
					PYQ Dec 23
(31)	A perpendicular di				
Α	intersection of two	-	izontal		
	axis given the valu				
	a. 2 nd Qua	rtile	b.	3 rd Quartile	





	C.	Mode	d.	1 st Quartile	
(00)	A 1000 t	la a una situ a su mua ia sluarum	he calentia a	PY	Q June 24
(32) A	a.	han ogive curve is drawn: Less than Cumulati		the vertical axis	
~	b.	More than Cumulati			
	c.	Highest frequencies			
	d.	Lowest frequencies	on vertical axis		
(00)	T (a				Q June 24
(33) B		equency distributions ar n to be drawn on the sam		o compare them visually	, the best
В	a.	Pie chart	16 311661 13		
	b.	Histogram			
	с.	Frequency polygon			
	d.	Bar chart			
(0.0)					Q June 24
(34) D		gram and a pie chart repr nold. Which statement is		data on monthly expenses	ofa
U	a.		-	ncy of each expense categ	orv while
	u.	the pie chart shows	· · ·		ory, write
	b.	-		w the frequency of each ex	penses
		category			
	с.	Both the histogram	and pie chart sho	w the proportion of each ex	kpenses
		category			
	d.	Pie charts are alway	's better than hist	ograms for representing ex	
(35)	The foll	lowing set of data cannot	be presented in a		Q June 24
(00) C	morou				
	a.	The heights of stude	ents described in o	centimeters	
	b.	The weights of cand	-	-	
	с.		•	dium", "average", "heavy",	etc.
	d.	The number of bills	per day cleared by	an auditor in a month	
(36)	An ogiv	e is used to represent:		PY	Q June 24
(30) B	a.	The frequency of ea	ch data point		
-	b.	The number of data	-	ow a specific value	
	c.	The proportion of da		-	
	0.		ita points latting b	elow a specific value	
	d.	The relationship bet		es	
(07) 5	d.	The relationship bet	ween two variable	es	YQ Sep 24
(37) D	d. The (The relationship bet Ogive can be used for ma	ween two variable	es	YQ Sep 24
(37) D	d. The C a.	The relationship bet Ogive can be used for ma Medium term pro	ween two variable king bjection	es	YQ Sep 24
(37) D	d. The C a. b.	The relationship bet Ogive can be used for ma Medium term project	ween two variable king bjection ction	es	YQ Sep 24
(37) D	d. The C a.	The relationship bet Ogive can be used for ma Medium term pro	ween two variable king ojection ction	es	YQ Sep 24
(37) D	d. The C a. b. c.	The relationship bet Ogive can be used for ma Medium term projec Short term projec	ween two variable king ojection ction	P P	YQ Sep 24 YQ Sep 24
(37) D (38) A	d. The C a. b. c. d. The c	The relationship bet Ogive can be used for ma Medium term projec Short term projec Long term projec Group frequency	ween two variable king ojection ction tion distribution	es P P tro station from early more	YQ Sep 24
	d. The C a. b. c. d. The c to pe	The relationship bet Ogive can be used for ma Medium term projec Short term projec Long term projec Group frequency distribution of commuter eak morning hours follow	ween two variable king ojection ction tion distribution	es P P tro station from early more	YQ Sep 24
	d. The C a. b. c. d. The c	The relationship bet Ogive can be used for ma Medium term projec Short term projec Long term projec Group frequency	ween two variable king ojection ction distribution s coming to a Me s which type of fre	es P P tro station from early more	YQ Sep 24





	с.	U-shaped curv	e			
	d.	Mixed Curve				
						PYQ Sep 24
(39) A	Series	s in which frequencies	are continuous	sly ad	lded corresponding	to each class
	interv	al in the series:				
	а.	Cumulative fre	quency series			
	b.	Frequency				
	с.	Deviation				
	d.	Mid value				
						PYQ Sep 24
(40) B	If the c	lass intervals of certa	ain data are 10	0-14,	15-19, 20-24, the	n the first class
	bounda	ries is				
	a.	10-14		b.	9.5-14.5	
	с.	10-15		d.	10. 5-15.5	

S

Frequency Distribution – MTPs

		MTP May 18
(2)	The difference between the upper and lower limit of a class is called	
Α	a. Class interval b. Mid value	
	c. Class boundary d. frequency	
		MTP May 18
(3)	What is exclusive Series	
C	a. In which both upper and lower limit are not included in cla	ss frequency
	b. In which lower limit is not included class frequency	. ,
	c. In which upper limit is not included in class frequency	
	d. None of the above	
		MTP Nov 18
(4)☆	For frequency distribution and time series which form of presentation	
A	a. Diagrammatic presentation	
~~	b. Graphic	
	c. both Diagrammatic and Graphic	
	d. More information required	
		MTP Nov 18
(5)A	Frequency Polygon is meant forfrequency distribution	
(3)A	a. Single	
	b. Double	
	c. Multi	
	d. None of the above	
		MTP Nov 18
(6)		MIP NOV 18
(6)	Ogive is also called as	
В	a. frequency graph	
	b. cumulative frequency graph	
	c. Histogram	
	d. None of these	
		MTP Nov 18



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Da.1b.2C.3d.4MTP Nov 18(8)The J shaped curve starts with afrequencyAa.Minimumb.Maximumc.Either a & bd.noneMTP Nov 18(9)Mid values are also calledCCCCa.Lower limitb.Upper limitC.CC.More than type ogivesC.More than type ogivesC.MTP Nov 19MTP Nov 19MTP Nov 19(12)Mode of a distribution can be obtained fromAa.Histogramb.Less than type ogivesC.More than type ogivesC.More than type ogivesC.More that the construction of.AAHistogramb.OgiveC.Frequency PolygonC.MTP May 20CC.MTP March 21MTP March 21MTP March 21MTP March 21C.Discrete SeriesA <th>(7)</th> <th>There are</th> <th>e types of frequency c</th> <th>urves</th> <th></th> <th></th>	(7)	There are	e types of frequency c	urves			
(8) The J shaped curve starts with afrequency A a. Minimum b. Maximum c. Either a & b d. none MTP Nov 18 (9) Mid values are also called C C a. Lower limit . b. Upper limit . c. Class mark . d. None MTP May 19 Series II (12) Mode of a distribution can be obtained from A a. Histogram b. Less than type ogives c. More than type ogives d. Frequency polygon MTP Nov 19 (13) Frequency Polygon MTP May 20 (15) MTP May 20 (15) MTP May 19 Series C. MTP May 20 (15) MTP May 20 (15) MTP May 20 (17) ☆ C.	D		•				
(8) The J shaped curve starts with afrequency A a. Minimum b. Maximum c. Either a & b d. none MTP Nov 18 (9) Mid values are also called . MTP Nov 18 (9) A. Lower limit . . . MTP Nov 18 (9) Mid values are also called 		С.	3	d.	4	MTD Nov 19	
Aa.Minimumb.Maximumc.Either a & bd.noneMTP Nov 18(9)Mid values are also calledMTP Nov 18Ca.Lower limitb.Upper limitc.Class markd.NoneMTP May 19 Series II(12)Mode of a distribution can be obtained fromAa.Histogramb.Less than type ogivesc.More than type ogivesd.Frequency density is used in the construction of.Aa.Histogramb.Ogivec.Frequency Polygond.None of theseMTP May 20(15)Median of a distribution can be obtained froma.Frequency polygonb.Histogramc.Less than type ogivesd.None of these.MTP March 21(17)%Histogram is used for presentation of the following type of seriesBa.Time Seriesc.Discrete Seriesc.Discrete Seriesc.Discrete Seriesd.Individual SeriesHIP March 21(18)DThe graphical representation of cumulative frequency distribution is called-a.Histogramb.Pie Chart<	(8)	The J sha	ped curve starts with a	freque	ncv	MIF NOV 10	
			-	-			
(9) Mid values are also called C a. Lower limit b. Upper limit c. Class mark d. None ITP May 19 Series II (12) Mode of a distribution can be obtained from A a. Histogram b. Less than type ogives c. More than type ogives d. Frequency polygon ITP Nov 19 (13) Frequency consity is used in the construction of. a. Histogram b. Ogive c. Frequency Polygon ITP May 20 (15) Median of a distribution can be obtained from C. Less than type ogives d. None of these. ITP March 21 (17)☆ Histogram c. Less than type ogives d. None of these. ITP March 21 (17)☆ Histogram is used for presentation of the following type of series B Discrete Series </th <th></th> <th>с.</th> <th>Either a & b</th> <th>d.</th> <th>none</th> <th></th>		с.	Either a & b	d.	none		
Ca.Lower limitb.Upper limitc.Class markd.NoneMTP May 19 Series II(12)Mode of a distribution can be obtained fromAa.histogramb.Less than type ogivesc.More than type ogivesc.More than type ogivesd.Frequency polygonMTP Nov 19(13)Frequency density is used in the construction of.Aa.Histogramb.Ogivec.Frequency Polygond.None of theseMTP May 20(15)MTP May 20(15)MTP May 20MTP May 20(15)Median of a distribution can be obtained fromCLess than type ogivesd.None of these.MTP May 21(17) \$\frac{1}{2}\$HistogramCLess than type ogivesd.None of these.MTP May 21(16)A.Time ServiceBa.Time ServiceDiscrete SeriesCDiscrete Series <th c<="" th=""><th>(0)</th><th>Midvolu</th><th></th><th></th><th></th><th>MTP Nov 18</th></th>	<th>(0)</th> <th>Midvolu</th> <th></th> <th></th> <th></th> <th>MTP Nov 18</th>	(0)	Midvolu				MTP Nov 18
b. Upper limit c. Class mark d. None MTP May 19 Series II (12) Mode of a distribution can be obtained from A a. Histogram b. Less than type ogives C. C. More than type ogives MTP Nov 19 (13) Frequency density is used in the construction of. A A a. Histogram b. Ogive MTP Nov 19 (13) Frequency density is used in the construction of. A A a. Histogram b. Ogive MTP May 20 (15) Median of a distribution can be obtained from MTP May 20 (15) Median of a distribution can be obtained from C C. Ersquency polygon MTP May 20 (15) Median of a distribution can be obtained from MTP May 20 (15) Median of a distribution scan be obtained from MTP May 20 (15) Median of a distribution scan be obtained from C C. <							
d. None MTP May 19 Series II (12) Mode of a distribution can be obtained from A a. Histogram b. Less than type ogives . C. More than type ogives . G. Frequency polygon MTP Nov 19 (13) Frequency density is used in the construction of. A a. Histogram b. Ogive . c. Frequency Polygon . d. None of these MTP May 20 (15) Median of a distribution can be obtained from C. Frequency Polygon d. None of these. MTP March 21 (15) Median of a distribution can be obtained from . C. Less than type ogives . None of these. d. None of these. MTP March 21 (17) X Histogram . . None of these. Individual Series a. . . .	-						
MTP May 19 Series II (12) Mode of a distribution can be obtained from A a. Histogram b. Less than type ogives c. More than type ogives d. Frequency polygon MTP Nov 19 (13) Frequency density is used in the construction of. A a. Histogram MTP May 20 MTP May 20 (13) Frequency Polygon A a. Histogram MTP May 20 (15) MTP May 20 (15) MTP May 20 (15) MEdian of a distribution can be obtained from C Ess than type ogives d. None of these MTP March 21 (17) ** Histogram c. Less than type ogives d. None of these TPP March 21 (17) ** Histogram c. <th colsp<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
(12) Mode of a distribution can be obtained from A a. Histogram b. Less than type ogives c. More than type ogives d. Frequency polygon MTP Nov 19 (13) Frequency rolygon MTP Nov 19 (13) A. A. </th <th></th> <th>d.</th> <th>None</th> <th></th> <th></th> <th></th>		d.	None				
A a. Histogram b. Less than type ogives c. More than type ogives d. Frequency polygon MTP Nov 19 (13) Frequency density is used in the construction of. A a. Histogram b. Ogive C. c. Frequency Polygon d. None of these MTP May 20 (15) Median of a distribution can be obtained from C a. Frequency polygon b. Upgon Upgon C a. Frequency polygon C. Less than type ogives D. D. None of these. MTP March 21 (17)☆ Histogram is used for presentation of the following type of series B a. Time Service D. Continuous Series C.	(12)	Mode of	a distribution can be obtaine	d from	MI	P May 19 Series II	
b. Less than type ogives c. More than type ogives d. Frequency polygon MTP Nov 19 (13) Frequency density is used in the construction of. A a. Histogram b. Ogive c. Frequency Polygon d. None of these MTP May 20 (15) Median of a distribution can be obtained from C a. Frequency polygon b. Histogram c. Less than type ogives d. None of these. MTP March 21 (17) \star Histogram is used for presentation of the following type of series B a. Time Service b. Continuous Series c. Discrete Series d. Individual Series MTP March 21 (18)D The graphical representation of cumulative frequency distribution is called- a. Histogram b. Pie Chart c. Frequency Polygon d. Ogive MTP March 21 (18)D The following representation of cumulative frequency distribution is called- a. Histogram b. Pie Chart c. Frequency Polygon d. Ogive MTP Apr 21 (20) The following representation of the following type of series B MIP March 21 (20) The following representation of cumulative frequency distribution is called- a. Histogram b. Pie Chart c. Frequency Polygon d. Ogive MTP Apr 21 (20) The following requency distribution $\frac{x 12 17 24 36 45}{f 2 5 3 9 8}$				unom			
d. Frequency polygon MTP Nov 19 (13) Frequency density is used in the construction of. A a. Histogram b. Ogive Ogive c. Frequency Polygon MTP May 20 MTP May 20 (15) Median of a distribution can be obtained from C Erequency polygon b. Histogram C Less than type ogives MTP March 21 (17) \$\Implication C Less than type ogives MTP March 21 (17) \$\Implication C Less than type ogives MTP March 21 (17) \$\Implication Fistogram C Discrete Series d. Individual Series MTP March 21 MTP March 21 (18)D The graphicat representation of cumulative frequency distribution is called- a. Histogram b. Pie Chart c. Frequency Polygon a. Histogram b. Pie Chart c. Frequency Polygon			-				
MTP Nov 19 (13) Frequency density is used in the construction of. A a. Histogram b. Ogive C. c. Frequency Polygon d. None of these MTP May 20 (15) Median of a distribution can be obtained from C C MTP May 20 (15) Median of a distribution can be obtained from C a. Frequency polygon b. Histogram C. Less than type ogives d. None of these. MTP March 21 (17)☆ Histogram is used for presentation of the following type of series B a. Time Service D Continuous Series c. Discrete Series d. Individual Series MTP March 21 (18)D The graphical representation of cumulative frequency distribution is called- a. Histogram D. Pie Chart c. Frequency Polygon D. Ogive MTP Apr 21 <t< th=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
(13) Frequency density is used in the construction of. A a. Histogram b. Ogive c. Frequency Polygon d. None of these MTP May 20 (15) Median of a distribution can be obtained from C a. Frequency polygon b. Histogram MTP May 20 (15) Median of a distribution can be obtained from C a. Frequency polygon b. Histogram MtP May 20 (15) Median of a distribution can be obtained from C a. Frequency polygon b. Histogram MtP March 21 (17)☆ Histogram is used for presentation of the following type of series B a. Time Service b. Continuous Series Discrete Series d. Individual Series MTP March 21 (18)D The graphical representation of cumulative frequency distribution is called- a. Histogram Histogram b. Pie Chart C. c. Fr		d.	Frequency polygon				
Aa.Histogram b.Ogive C.Frequency Polygon d.Mome of theseMTP May 20(15)Median of a distribution can be obtained fromCa.Frequency polygon b.Histogram c.Less than type ogives d.None of these.MTP March 21(17) \checkmark Histogram is used for presentation of the following type of series Ba.Time Service b.Continuous Series c.Discrete Series d.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called- a.Histogram b.Pie Chart c.C.Frequency Polygon d.OgiveMTP Apr 21(18)DThe graphical representation of cumulative frequency distribution is called- a.a.Histogram b.b.Pie Chartc.Frequency Polygon d.d.OgiveMTP Apr 21(20)The following frequency distribution FMTP Ajo 43MTP Ajo 43MTP Ajo 43	(13)	Frequen	cy density is used in the cons	truction of		MIP NOV 19	
b. Ogive c. Frequency Polygon d. None of these MTP May 20 (15) Median of a distribution can be obtained from C a. Frequency polygon b. Histogram c. Less than type ogives d. None of these. MTP March 21 (17) X Histogram is used for presentation of the following type of series B a. Time Service b. Continuous Series c. Discrete Series d. Individual Series MTP March 21 (18)D The graphical representation of cumulative frequency distribution is called- a. Histogram b. Pie Chart c. Frequency Polygon d. Ogive MTP Apr 21 (20) The following frequency distribution B $X 12 17 24 36 45$ f 2 5 3 9 8				d detion of			
d.None of theseMTP May 20(15)Median of a distribution can be obtained fromCa.Frequency polygonb.Histogramc.Less than type ogivesd.None of these.MTP March 21(17) x Histogram is used for presentation of the following type of seriesBa.Time Serviceb.Continuous Seriesc.Discrete Seriesd.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called- a.a.Histogramb.Pie Chartc.Frequency Polygond.OgiveMTP Apr 21(20)The following frequency distributionB $\frac{x}{12}$ 17 24 36 45 f25g98 $\frac{x}{12}$ 17 24 36 45			-				
MTP May 20(15)Median of a distribution can be obtained fromCa.Frequency polygonb.Histogramc.Less than type ogivesd.None of these.MTP March 21(17) \checkmark Histogram is used for presentation of the following type of seriesBa.Time Serviceb.Continuous Seriesc.Discrete Seriesd.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called- a.a.Histogram b.b.Pie Chart c.c.Frequency Polygon d.d.OgiveMTP Apr 21(20)The following frequency distributionB $\frac{x}{12}$ 17 24 36 $\frac{x}{12}$ 17 24 36 45 f 2 5 3 9 8							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		d.	None of these				
Ca.Frequency polygon b.b.Histogram c.Less than type ogives d.d.None of these.MTP March 21(17)☆Histogram is used for presentation of the following type of series Ba.Time Service b.b.Continuous Series c.c.Discrete Series d.d.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called- a.Histogram b.Pie Chart c.Frequency Polygon d.OgiveMTP Apr 21(20)The following frequency distribution Bx1217243645f25398	(15)	Median	of a distribution can be obtain	ed from		MTP May 20	
b. Histogram c. Less than type ogives d. None of these. MTP March 21 (17)							
d.None of these.MTP March 21(17) $\frac{1}{\sqrt{2}}$ Histogram is used for presentation of the following type of seriesBa.Time Serviceb.Continuous Seriesc.Discrete Seriesd.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called-a.Histogramb.Pie Chartc.Frequency Polygond.OgiveMTP Apr 21(20)X12172436X12X12X12X12XXXXXXXXXXXXXXXXXXXXXXXXXXX <th colspa="</th"><th></th><th>b.</th><th></th><th></th><th></th><th></th></th>	<th></th> <th>b.</th> <th></th> <th></th> <th></th> <th></th>		b.				
MTP March 21 (17)☆ Histogram is used for presentation of the following type of series B a. Time Service b. Continuous Series c. Discrete Series d. Individual Series MTP March 21 (18)D The graphical representation of cumulative frequency distribution is called- a. Histogram b. Pie Chart c. Frequency Polygon d. Ogive MTP Apr 21 (20) MTP age 45 MTP Age 45 § 3 9 8							
(17)☆Histogram is used for presentation of the following type of seriesBa.Time Serviceb.Continuous Seriesc.Discrete Seriesd.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called-a.Histogramb.Pie Chartc.Frequency Polygond.OgiveMTP Apr 21(20)The following frequency distributionBX121217243645f25398		d.	None of these.				
Ba.Time Serviceb.Continuous Seriesc.Discrete Seriesd.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called-a.Histogramb.Pie Chartc.Frequency Polygond.OgiveMTP Apr 21(20)X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X12X	(17)₅∕z	Histogra	m is used for presentation of	the followi	ng type of series	MIP March 21	
b. Continuous Series c. Discrete Series d. Individual Series MTP March 21 (18)D The graphical representation of cumulative frequency distribution is called– a. Histogram b. Pie Chart c. Frequency Polygon d. Ogive MTP Apr 21 (20) The following frequency distribution B $\frac{x 12 17 24 36 45}{f 2 5 3 9 8}$				the following			
d.Individual SeriesMTP March 21(18)DThe graphical representation of cumulative frequency distribution is called- a.a.Histogramb.Pie Chartc.Frequency Polygond.OgiveMTP Apr 21(20)The following frequency distributionB $\overline{x \ 12 \ 17 \ 24 \ 36 \ 45}$ $\overline{f \ 2 \ 5 \ 3 \ 9 \ 8}$			Continuous Series				
$\begin{array}{c c c c c c c c } \mbox{MTP March 21} \\ \mbox{(18)D} & The graphical representation of cumulative frequency distribution is called-} \\ a. Histogram \\ b. Pie Chart \\ c. Frequency Polygon \\ d. Ogive & $$MTP Apr 21$ \\ \hline $$C20$ The following frequency distribution $$MTP Apr 21$ \\ \hline $$x$ 12 17 24 36 45$ \\ \hline $$f$ 2 5 3 9 8$ \\ \hline \end{tabular}$							
		d.	Individual Series				
a. Histogram b. Pie Chart c. Frequency Polygon d. Ogive MTP Apr 21 (20) The following frequency distribution B X 12 17 24 36 45 f 2 5 3 9 8	(18)	The gran	hical representation of cumu	lative frequ	lency distribution is		
b. Pie Chart c. Frequency Polygon d. Ogive MTP Apr 21 (20) The following frequency distribution B X 12 17 24 36 45 f 2 5 3 9 8			-	anvo nequ			
d. Ogive MTP Apr 21 (20) The following frequency distribution Image: Second Se			-				
(20) The following frequency distribution x 12 17 24 36 45 f 2 5 3 9 8		с.	Frequency Polygon				
(20) The following frequency distribution B \overline{X} 12 17 24 36 45 f 2 5 3 9 8		d.	Ogive				
x 12 17 24 36 45 f 2 5 3 9 8	(20)	The follo	wing frequency distribution			MTP Apr 21	
f 2 5 3 9 8				45			
is classified as-							
		is classi					





	а. с.	Continuous Cumulative	b. d.	Discrete None of these
	0.	Cumulative	u.	MTP Oct 2
(21) A				coordinates are the upper limits of onding cumulative frequencies is
				MTP March 22
(23) C	For the no 0—19 is	on-overlapping classes 0—	19,20—39,4	0—59 the class mark of the class
	а.	0	b.	19
	с.	9.5	d.	none of these
(07)		the and more there taken a		MTP June 22
(27) B	Less than a.	i type and more than type C Mean	b.	Median
5	а. С.	Mode	d.	None of these
				MTP Dec 22 Series I
(34) B	a. b. c. d.	Series is continuous. Open ended Exclusive Close ended Unequal class intervals	RS	
				MTP Dec 22 Series I
(35) D	Ogive gra a. c.	ph is used for finding: Quartiles Median	b. d.	Deciles All of these
(00)	L liete due u	a ia waafad ka alakamatina am		MTP Dec 22 Series I
(36) B	Histogran a.	n is useful to determine gra AM	phically the v b.	Alue of: Mode
5	с.	Median	d.	None of these
				MTP June 2023 Series
(37)	Ogive for	more than type and less th		
В	а.	Means	b.	Median
	С.	Mode	d.	Origin MTP June 2023 Series I
(38) B	-	cular is drawn from the poir value of x denotes: First Quartile Second Quartile Third Quartile Any of the above	nt of intersect	ion of 2 Ogives on the horizontal
(39) A		e x axis and fatalities on the		MTP June 2023 Series I ld, a frequency graph is plotted for n frequency curve is most expected





	a. J shaped curve	
	b. U shaped curve	
	c. Bell shaped curve	
	d. Mixed shaped curve	
(44)	MTP Dec 2023 S	eries II
(41)	The graphical representation of Median is calculated:	
Α	a. Ogive Curve b. Frequency Curve	
	c. Line Diagram d. Histogram	
	MTP June 24 S	Series II
(44)	The number of times a particular item occurs in a given data is called its	
В		
	a. Variation	
	b. Frequency	
	c. Cumulative frequency	
	d. None of these	
	MTP June 24 S	Series II
(47)	An Ogive can be prepared in different ways.	
Α	a. 2 b. 3	
	c. 4 d. 5	
	MTP June 24 Se	eries III
(48)	The difference between the upper and lower limit of a class is called	
A	a. Class Interval b. Mid Value	
	c. Class Boundary d. Frequency	
	MTP June 24 Se	eries III
(49)	What is exclusive Series	
Ċ	a. In which both upper and lower limit are not included in class freque	encv
	b. In which lower limit is not included class frequency	
	c. In which upper limit is not included in class frequency	
	d. None of these	
	MTP Sep 24 S	Series L
(50)	According to the empirical rule, if the data form a "bell-shaped "distributio	
D	the maximum and minimum frequencies occur at and _	n, thôn
5	respectively.	
	a. Middle, left end	
	b. Middle, right end	
	d. Middle, ends	
(52)	MTP Sep 24 S	eries II
(52)	Which of the following is suitable for cumulative frequency distribution?	eries II
(52) A	-	eries II

Sampling - PYQs

		PYQ June 24
(1)	Which sampling is based on the	e discretion of the sampler?
D	a. Systematic	b. Multi-stage





	C.	Stratified	d.	Purposive	
	υ.	Stratineu	u.	Fulposive	
					PYQ June 24
(2)	Which	of the following is not a typ	pe of sampling?		
С	a.	Probability			
	b.	Non-probability			
	с.	Stand-Alone			
	d.	Mixed			
					PYQ Sep 24
(3)	What	is the purpose of stratified	d random samplir	ıg?	
Α					
	а.	To divide the popula	ition into subgrou	ips and then rand	omly sample from
		each subgroup			
	b.	To ensure that every	individual in the	population has a	n equal chance of
		being selected			
	с.	To select individuals	s based on their a	vailability and co	nvenience
	d.	To select a fixed per	centage of the po	pulation without	any specific
		criteria			

Sampling - MTPs

		MTP Sep 24 Series I
(2) C	Which of the following is not a type of sampling?	
	a. Probability	
	b. Non- Probability	
	c. Stand-alone	
	d. Mixed	
		MTP 1 Jan 25
(3)C	Out of these, which is not a probability sampling?	
	a. Cluster Sampling	
	b. Stratified Sampling	
	c. Quota Sampling	
	d. Simple Random Sampling	
		MTP 1 Jan 25
(4)	With the increase in sample size, the error also	
А	a. Decreases	
	b. Increases	
	c. Remains Same	
	d. All the Above	
		MTP 2 - Jan 25
(5)	Standard Error can be described as	
D	a. The error committed in sampling	
	b. The error committed in a sample survey	
	c. The error committed in estimating parameter.	
	d. Standard deviation of statistic.	



Theory MCQs

Chapter 18: Index Numbers

Index Numbers – PYQs

		PYQ May 18
(1)	Time reversal and factor reversal are:	
D	a. Quantity Index	
	b. Ideal Index	
	c. Price Index	
	d. Test of consistency	
		PYQ May 18
(2)	A series of numerical figures which show the relative position is calle	d
Α		
	a. Index number	
	b. Relative number	
	c. Absolute number	
	d. None of these	
		PYQ May 18
(3)	The number of test of Adequacy is:	
D	a. 2 b. 5	
	c. 3 d. 4	
(PYQ May 18
(4)	$P_{_{OI}}$ is the index for time	
Α	a. 1 on 0 b. 0 on 1	
	c. 1 on 1 d. 0 on 0	
		PYQ May 18
(5)	The circular test is an extension of	
А	a. The time reversal test	
	b. The factor reversal test	
	c. The unit test	
	d. None of these	
		PYQ May 18
(6)	Price – relative is expressed in term of	
С	a. $p = \frac{P_n}{n}$ b. $p = \frac{P_o}{n}$	
	a. $P = \frac{P_n}{P_o}$ b. $P = \frac{P_o}{P_n}$	
	c. $P = \frac{P_n}{P} \times 100$ d. $P = \frac{P_o}{P} \times 100$	
	$P_o \qquad P_n$	
(7)		PYQ May 18
(7)	Circular test is satisfied by	
С	a. Lespeyre's Index Number	
	b. Paasche's Index Number	the standard states and
	c. The simple geometric mean of price relatives and the weigh	ited aggregative
	with fixed weights	





	d.	None of these			
					PYQ May 18
(8) D		tiplicative time series mode	el is (from Time	Series Topic – delete	ed from
В	syllabus a.	s) y = T+S+C+I	b.	y = TSCI	
	а. С.	y = a+bx	d.	$y = a + bx + cx^2$	
		,		y = u + bx + cx	DVO Nov 19
(9)	Which	of the following statement i	s true?		PYQ Nov. 18
D	a.	Paasche's Index Numbe		e base year quantity	/
	b.	Fisher's Index Number is			
		and Paasche's Index Nu			
	С.	Arithmetic Mean is the n	nost appropriat	e average for constr	ucting the index
	d.	number Fisher's Index Number is			
	u.	FISHER'S INDEX NUMBER IS	s an ideal muex	number	PYQ Nov. 18
(10)	The sim	ple average method is use	d to calculate		
()		eries Topic – deleted from s			
	a.	Trend Variation			
С	b.	Cyclical Variation			
	C.	Seasonal Variation			
	d.	Irregular Variation			PYQ Nov. 18
(11)	The sale	e of Cold Drink would go up	in summers ar	nd go down in the wi	-
Ċ	exampl				
	а.	Trend Variation			
	b.	Cyclical Variation			
	c. d.	Seasonal Variation	r		
	u.	Irregular Variation			PYQ June 19
(12)	Which i	s called an ideal index num	bers		
Ċ	а.	Laspeyre's index numbe	r		
	b.	Passche's index number			
	С.	Fisher's index number			
	d.	Marshall Edgeworth inde	ex number		DVO Juno 10
(13)	In semi	averages method, if the nu	mber of values	is odd then we drop	PYQ June 19
(10)		eries Topic – deleted from s			•
С	a.	First value	,		
	b.	Last value			
	С.	Middle value			
	d.	Middle two value			DVO Juno 10
(14)	Which i	s not satisfied by Fisher's in	leal index num	ber?	PYQ June 19
(14) C					
	a.	Factor Reversal Test			
	b.	Time Reversal Test			
	C.	Circular Test			
(14) C	a. b.	Time Reversal Test	deal index num	ber?	





	d.	None of these			
					PYQ June 19
(15) A		n semi average is: Series Topic – deleted from sy Linear Exponential	llabus) b. d.	Parabola None of these	
(16) B		ost commonly used mathema Series Topic – deleted from sy Moving average Simple average Exponential None of these		ör finding secular tr	PYQ June 19 rend is
					PYQ Nov. 19
(17) A	When s of? a. b. c. d.	sale of cold drink increases in Seasonal variations Cyclic variations Secular variations None of these	summer and	decreases in winter	s is an example
					PYQ Nov. 19
(18) A		nal variations take place withi Series Topic – deleted from sy One year Half year		Two years Five years	PYQ Nov. 19
(19) A	Fisher's a. b. c. d.	s index number does not satis Circular test Time reversal test Factor reversal test Unit test	sfy:		
					PYQ Nov. 19
(20) C		i-average method if the no. of Series Topic – deleted from sy First value Middle value		we exclude: Last value None of these	DVO New 20
(21) A	Fisher's a. b. c. d.	s ideal index number does no Circular Time reversal Factor reversal Unit	t satisfy	test	PYQ Nov. 20
					PYQ Nov. 20
(22) C	Index n a. c.	umbers are expressed as Squares Percentages	b. d.	Ratio Combinations	DVO lon 21
					PYQ Jan. 21




(22)	The cost of living index is always
(23) C	The cost of living index is always a. Price index number
C	b. Quantity index number
	c. Weighted index number
	d. Value index number
(24)	PYQ Jan. 21 Fisher's index number does not satisfy
(24) B	a. Unit test
Б	b. Circular test
	c. Time reversal test d. Factor reversal test
	u. Factor reversal test PYQ Jan. 21
(25)	When the prices for quantities consumed of all commodities are changing in the
(23) A	same ratio, then the index numbers due to Laspeyre's and Paasche's will be.
	same ratio, then the index numbers due to Laspeyre's and Paasche's wittbe.
☆	e Fruel
	a. Equal
	b. Unequal
	c. Reciprocal of Marshall Edge worth Index Number
	d. Reciprocal of Fisher Index Number
(00)	PYQ Dec. 21
(26)	If P_{10} and P_{01} are index for 1 on 0 and 0 on 1 respec. then formula $P_{01} \times P_{10} = 1$ is used
В	for
	a. Unit test
	b. Time Reversal Test
	c. Factor Reversal Test
	d. Circular Test
	PYQ Dec. 21
(27)	The weighted averaged of price relatives of commodities, when the weights are equal
С	to the value of commodities in the current year, yields index number.
☆	
	a. Fisher's ideal
	b. Lasperey's
	c. Paasche's
	d. Marshall-Edgeworth
	PYQ Dec. 21
(28)	Index numbers are not helpful in
D	a. Framing economics policies
	b. Revealing trend
	c. Forecasting
	d. Identifying errors
	PYQ Dec. 21
(29)	The three index numbers, namely, Laspeyre, Paasche and Fisher do not satisfy
D	test.
	a. Time reversal b. Factor reversal
	c. Unit d. Circular
(30)	PYQ June 22 Geometric mean method used in which index number to find it out





С	а.	Laspeyre's			
	b.	Paasche's			
	C.	Fishers index number			
	d.	None of these			PYQ June 22
(31)	Which tes	st is known for shift base inde	x no.		
С	a. b.	Factor test Unit test			
	с.	Circular test			
	d.	Time reversal test			
(32)	Laspevre	and Paasche do not satisfy -			PYQ June 22
С (с_)	a.	Unit test			
	b.	Factor test			
	c. d.	Time reversal test Bowley's test			
				6	PYQ June 22
(33)		's index number is based on?			
А	a. b.	Last year weight Present year weight			
	с.	Last year value			
	d.	Present year value			
(34)	Price rela	tive is-			PYQ June 22
(04) A	a.	$\frac{P_1}{R} \times 100$	b.	Р	
		$\frac{1}{P_0} \times 100$			
	с.	P_0	d.	$P_{_{1}} / P_{_{0}}$	
					PYQ June 22
(35) B	Which on	e of the following is not appro	priate for c	alculation of	f index number?
2	а.	Unit test			
	b.	Price relative test			
	c. d.	Circular test Time reversal test			
	ч.				PYQ Dec 22
(36)		the following index measures	-		
A ☆	-	esentative basket of goods and busehold?	a services o	t the type wi	nich are bought by a
~	a.	Retail Price Index			
	b.	Laspeyre's Index			
	υ.				
	с.	Fisher's Index			
					PYQ Dec 22
(37)	c. d.	Fisher's Index	l index num	ber because	
(37) C	c. d.	Fisher's Index Paasche's Index	l index num	ber because	





c. Both factor and time reversal test d. Circular test		b. Time reversa		
PYQ Dec 22 (38) In price index, when a new commodity is required to be added, which of the following index is used? a. Shifted price index b. Splicing price index c. Deflating price index d. Value price index d. Marshall-Edgeworth index b. Paasche's Index c. Laspeyre's Index d. Fisher's Index d. Fisher's Index d. Fine Reversal, Fisher's Ideal Index b. Time Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index d. Factor Reversal, Fisher's Ideal Index				
 (38) In price index, when a new commodity is required to be added, which of the following index is used? a. Shifted price index b. Splicing price index c. Deflating price index d. Value price index d. Value price index d. Value price index gather index		a. Circular tes	t	PVO Dec 22
A index is used? a. Shifted price index b. Splicing price index c. Deflating price index d. Value price index PVQ Jun 23 (39) Which of the below index is computed by taking the average of base year and current year? a. Marshall-Edgeworth index b. Paasche's Index c. Laspeyre's Index d. Fisher's Index d. Fisher's Index veighted geometric mean of relative formula satisfies test while Factor A Reversal, Fisher's Ideal Index b. Time Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index b. Time Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index d. Factor Reversal, Fisher's Ideal Index main dex number constructed to measure the relative change in the price of an item g. or a group of item is called: a. Quantity index number c. Volume index number c. Volume index number c. Oricular test	(38)	In price index, when a ne	ew commodity is required to be add	-
b. Splicing price index c. Deflating price index d. Value price index d. Value price index PYQ Jun 23 (39) Which of the below index is computed by taking the average of base year and current year? a. Marshall-Edgeworth index b. Paasche's Index c. Laspeyre's Index c. Laspeyre's Index d. Fisher's Index meretain the eversal fisher's Ideal Index b. Time Reversal, Fisher's Ideal Index b. Time Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index b. Time Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index d. Factor Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index d. Factor Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index b. Time Reversal, Fisher's Ideal Index c. Factor Reversal, Fisher's Ideal Index d. Factor Reversal, Fisher's Ideal Index d. Factor Reversal, Fisher's Ideal Index for a group of item is called! a. Quantity index number b. Price index number c. Volume Index number c. Volume Index number d. Composite index number f. Volume Index number f. Volume Index number f. Composite index number f. Composite index number f. Composite index number f. Composite index number f. Corrular test f. Factor Reversal test f. Corrular test f. Factor Reversal test f. Factor Reversal test f. PYQ June 24 (43) Marshall-Edgeworth FVQ June 24 (44) What index number formula satisfies both the time reversal and factor reversal tests?		-		
c. Deflating price index d. Value price index PYQ Jun 23 (39) Which of the below index is computed by taking the average of base year and current year? a. Marshall-Edgeworth index b. Paasche's Index c. Laspeyre's Index d. Fisher's Index PYQ Jun 23 (40) Weighted geometric mean of relative formula satisfies		a. Shifted price	e index	
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b. Paasche's c. Fisher's ideal d. Marshall-Edgeworth PYQ June 24 (44) What index number formula satisfies both the time reversal and factor reversal tests? A	B (42) C (43)	or a group of item is call a. Quantity inc b. Price index index c. Volume index d. Composite Fisher's index does not s a. Unit test b. Time Revers c. Circular tess d. Factor Reve	ed: dex number number ex number index number satisfy following test sal test t t	PYQ Dec 23 PYQ June 24
c. Fisher's ideal d. Marshall-Edgeworth FYQ June 24 (44) A What index number formula satisfies both the time reversal and factor reversal tests?	B (42) C (43)	or a group of item is call a. Quantity inc b. Price index index c. Volume index d. Composite Fisher's index does not s a. Unit test b. Time Revers c. Circular test d. Factor Reve	ed: dex number number ex number index number satisfy following test sal test t t	PYQ Dec 23 PYQ June 24
 d. Marshall-Edgeworth PYQ June 24 (44) What index number formula satisfies both the time reversal and factor reversal tests? A 	B (42) C (43)	or a group of item is call a. Quantity inc b. Price index index c. Volume index d. Composite Fisher's index does not s a. Unit test b. Time Revers c. Circular test d. Factor Reve	ed: dex number number ex number index number satisfy following test sal test t t	PYQ Dec 23 PYQ June 24
PYQ June 24(44)What index number formula satisfies both the time reversal and factor reversal tests?A	B (42) C (43)	or a group of item is call a. Quantity inc b. Price index index c. Volume index d. Composite Fisher's index does not s a. Unit test b. Time Revers c. Circular test d. Factor Reve The average of base yea a. Laspeyre's b. Paasche's	ed: dex number number ex number index number satisfy following test sal test t t ersal test t r and current years is used in	PYQ Dec 23 PYQ June 24
(44) What index number formula satisfies both the time reversal and factor reversal tests?A	B (42) C (43)	or a group of item is call a. Quantity inc b. Price index f c. Volume inde d. Composite Fisher's index does not s a. Unit test b. Time Revers c. Circular test d. Factor Reve	ed: dex number number ex number index number satisfy following test sal test t ersal test t r and current years is used in	PYQ Dec 23 PYQ June 24
	B (42) C (43)	or a group of item is call a. Quantity inc b. Price index f c. Volume inde d. Composite Fisher's index does not s a. Unit test b. Time Revers c. Circular test d. Factor Reve	ed: dex number number ex number index number satisfy following test sal test t ersal test t r and current years is used in	PYQ Dec 23 PYQ June 24 index number
a. Fisher's Ideal index	B (42) C (43) D	or a group of item is call a. Quantity inc b. Price index index c. Volume index d. Composite Fisher's index does not s a. Unit test b. Time Revers c. Circular test d. Factor Reve The average of base yea a. Laspeyre's b. Paasche's c. Fisher's idea d. Marshall-Ed	ed: dex number number ex number index number satisfy following test sal test t t ersal test t al current years is used in	PYQ Dec 23 PYQ June 24 pYQ June 24 PYQ June 24
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b. Laspeyres index c. Paasche's index d. Marshall-Edgeworth index PYQ June 24 (45) What of the following is not a test of adequacy in the context of index numbers? B a. Unit test b. Square test c. Circular test d. Factor reversal test PYQ June 24 (46) Which index number formula does not satisfy the time reversal test? b a. Fisher's ideal index and Laspeyre's index b. Laspeyres index and Paasche's index c. Paasche's index and Fisher's ideal index and Paasche's index d. Laspeyres' index, Fisher's ideal index and Paasche's index
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b. Square test c. Circular test d. Factor reversal test PYQ June 24 (46) Which index number formula does not satisfy the time reversal test? b a. Fisher's ideal index and Laspeyre's index b. Laspeyres index and Paasche's index c. Paasche's index and Fisher's ideal index d. Laspeyres' index, Fisher's ideal index and Paasche's index
c. Circular test d. Factor reversal test PYQ June 24 (46) Which index number formula does not satisfy the time reversal test? b a. Fisher's ideal index and Laspeyre's index b. Laspeyres index and Paasche's index c. Paasche's index and Fisher's ideal index d. Laspeyres' index, Fisher's ideal index and Paasche's index
c. Circular test d. Factor reversal test PYQ June 24 (46) Which index number formula does not satisfy the time reversal test? b a. Fisher's ideal index and Laspeyre's index b. Laspeyres index and Paasche's index c. Paasche's index and Fisher's ideal index d. Laspeyres' index, Fisher's ideal index and Paasche's index
PYQ June 24 (46) Which index number formula does not satisfy the time reversal test? b a. Fisher's ideal index and Laspeyre's index b. Laspeyres index and Paasche's index c. Paasche's index and Fisher's ideal index d. Laspeyres' index, Fisher's ideal index and Paasche's index
PYQ June 24(46)Which index number formula does not satisfy the time reversal test?ba.a.Fisher's ideal index and Laspeyre's indexb.Laspeyres index and Paasche's indexc.Paasche's index and Fisher's ideal indexd.Laspeyres' index, Fisher's ideal index and Paasche's index
 (46) Which index number formula does not satisfy the time reversal test? a. Fisher's ideal index and Laspeyre's index b. Laspeyres index and Paasche's index c. Paasche's index and Fisher's ideal index d. Laspeyres' index, Fisher's ideal index and Paasche's index
 b. Laspeyres index and Paasche's index c. Paasche's index and Fisher's ideal index d. Laspeyres' index, Fisher's ideal index and Paasche's index
c. Paasche's index and Fisher's ideal indexd. Laspeyres' index, Fisher's ideal index and Paasche's index
c. Paasche's index and Fisher's ideal indexd. Laspeyres' index, Fisher's ideal index and Paasche's index
d. Laspeyres' index, Fisher's ideal index and Paasche's index
C a. Paasche's method but not Laspeyre's method
b. Laspeyre's method but not Fisher's method
c. Fisher's method
d. Lasperye's method and Fisher's method
PYQ Sep 24
(48) The value index is equal to:
C a. The total sum of the values of a given year plus the sum of the values of the base year
b. The total sum of the values of a given year multiplied by the sum of the values of the base year
c. The total sum of the values of a given year divided by the sum of the
values of the base year
d. The total sum of the values of a given year minus the sum of the values of the base year
PYQ Sep 24
(49) Which one of the following test of adequacy is concerned with the measurement of
C price changes over a period of years, when it is desirable to shift the base?
a Time Beversal test
a. Time Reversal test
b. Unit test

Index Numbers – MTPs

(1) The is satisfied when $P_{ab} \times P_{bc} \times P_{ca} = 1$ C a. Time reversal test b Eactor reversal test				MTP May 18
	(1)	The	is satisfied when $P_{ab} \times P_{bc} \times P_{ca} = 1$	
h Factor reversal test	С	a.	Time reversal test	
		b.	Factor reversal test	





	c. Circular Test d. none of these
	MTP May 18
(2)	The number of tests of Adequacy
С	a. 2 b. 3
	c. 4 d. 5
(2)	Fishers' Ideal Index number is
(3) C	a. The median of Laspyre's and Paasches Index numbers
U	b. The Arithmetic mean of Laspyres and Paasche's Index numbers
	c. The geometric mean of Laspyres and Paasche's Index Numbers
	d. None of these
	MTP Nov 18
(4)	Fishers Ideal Formula satisfies
В	(1) Unit Test
	(2) Circular Test
	(3) Factor Reversal Test
	(4) Time Reversal Test
	a. 1 and 2 b. 1, 3 and 4
	c. 1 and 3 d. 1, 2 and 3 MTP Nov 18
(5)	While construction of Index numbers which of the following has to be considered as
(5) B	point of reference in company various data describing individual behaviour
5	a. Selection of weights
	b. Base Period
	c. Selection of Formulae
	d. Choice of variables
	MTP Nov 18
(6)☆	Which of the options does not contain the proper use of Index numbers
С	a. Helpful in policy determination
	b. Useful in Forecasting
	c. Equally useful in all condition for different purpose
	d. Helpful in comparison
(7)P	MTP May 19 Weighted G.M. of relative formula satisfytest
(7)B	Weighted G.M. of relative formula satisfytest a. Time Reversal Test
	b. Circular test
	c. Factor Reversal Test
	d. None of these
	MTP May 19
(10)	Purchasing Power of Money is
A	a. Reciprocal of price index number
	b. Equal to price index number.
	c. Unequal to price index number.
	d. None of these.
	MTP Nov 19
(14)	Circular test is the extension of
С	a. Unit test





	h				
	b.	Factor reversal test Time reversal test			
	C.				
	d.	None of these			
					MTP Nov 19
(15)	Unit test	t is not satisfied by			
С	а.	Fishers Index number			
	b.	Laspyers Index number			
	с.	Simple Aggregative			
	d.	Bowleys Index number			
					MTP Nov 19
(16)	The best	t average for construction of Index	Numb	er is	
В	а.	AM	b.	GM	
	с.	НМ	d.	None of thes	е
					MTP Nov 21
(24)	Which i	is called an ideal index number			
Ċ	a.	Laspyres Index number			
	b.	Pasches Index number			
	C.	Fishers Index number		4 .	
	d.	Marshall- Edgeworth Index n	umber		
	u.		umber		MTP Nov 21
(25)	The circu	ular test is an extension of			
(23) A		The time reversal test		S	
А	a.				
	b.	The factor reversal test			
	С.	The Unit test			
	d.	None of these			
					MTP March 22
(30)		shted average of price relatives of			weight is equal to
В	the value	e of commodities in base year yiel	lds	_index number	
	а.	Fisher's Ideal			
	b.	Laspyres			
	с.	Paasches			
	d.	Marshall-Edgeworth			
					MTP June 22
(31)	The num	nber of tests of Adequacy is			
С	а.	2	b.	3	
	с.	4	d.	5	
					MTP June 22
(32)	Fishers I	Ideal formula for calculating Index	numbe	er satisfies the	
D		-			
		Unit Test			
	а.				
	a. b.	Factor Reversal Test			
	b.				
	b. c.	Time reversal Test			
	b.				MTP lune 22
(33)	b. c. d.	Time reversal Test All of these			MTP June 22
(33) △	b. c. d. Purcha	Time reversal Test All of these asing power of money is	umber		MTP June 22
(33) A	b. c. d. Purcha a.	Time reversal Test All of these asing power of money is Reciprocal of Price index nu			MTP June 22
	b. c. d. Purcha	Time reversal Test All of these asing power of money is	r		MTP June 22





	d.	None of these
(0. l)	T I 0.	MTP Dec 22 – Series I
(34)		ular Test is known as:
A	а.	$P_{01} \times P_{12} \times P_{20} = 1$
	b.	$P_{12} \times P_{01} \times P_{20} = 1$
	с.	$P_{20} \times P_{12} \times P_{01} = 1$
	d.	$P_{02} \times P_{21} \times P_{12} = 1$
		MTP Dec 22 – Series I
(35)	Laspeyre	es index number is a weighted aggregate method by taking as
Α	weights.	
	а.	The quantity consumed in the base year
	b.	The quantity consumed in the current year
	с.	Value of items consumed in the base year
	d.	Value of items consumed in the current year MTP Dec 22 – Series II
(36)	Which is	not satisfied by Fisher's Ideal Index Number?
(30) C	VVIICIII3	s not satisfied by Fisher's ideat index Number:
•	a.	Factor Reversal Test
	b.	Time Reversal Test
	с.	Circular Test
	d.	None of these
		MTP Dec 22 Series II
(39)	Fisher's	index number is called as ideal index number because is in satisfies.
С	_	
	a.	Factor reversal test
	b.	Time reversal test Both factor and time reversal test
	c. d.	Circular test
	u.	MTP June 2023 Series I
(40)	Which ir	ndex measures the change from month to month in the cost of a
Â		ntative basket of goods and services of the type bought by a typical
	househo	old?
	а.	Retail Price Index
	b.	Laspeyre's Index
	с.	Fisher's Index
	d.	Paasche's Index
(41)	In price i	MTP June 2023 Series I index, when a new commodity is required to be added, which of the
(41) A	-	g index is used?
~	a.	Shifted price index
	b.	Splicing price index
	C.	Deflating price index
	d.	Value price index
		MTP June 2023 Series II
(42)		est should be considered necessarily to verify the consistency while we
D	select ar	n appropriate index formula





	a. (Circular test
	b. T	Time reversal test
	c. F	Factor reversal test
	d. E	Both b and c
		MTP June 2023 Series II
(43) D	Circular test	is satisfied by which of the following index?
	a. L	_aspeyres index
	b. F	Paasche's index
	c. F	Fisher's index
	d. S	Simple geometric mean of price relatives
		MTP June 2023 Series II
(45)	Fisher's met	nod of calculating the index number is based on the
A		Geometric mean
		Arithmetic mean
		Harmonic mean
		None of these
	u. 1	MTP Dec 23 Series I/ MTP Sep I
(46)	Fisher index	number isof Laspyres and Paasches Index Number
(40) B		A.M b. G.M
D		
	c. F	
(47)D		MTP Dec 2023 Series I/ MTP Sep I
(47)D		is satisfied by which of the following index?
		aspeyres index
		Paasche's index
		Fisher's index
		Simple geometric mean of price relatives
	d. 5	Simple geometric mean of price relatives MTP Dec 2023 Series I
(48)	d. S The cost of ir	Simple geometric mean of price relatives MTP Dec 2023 Series I ndex number is always
(48) C	d. S The cost of ir	Simple geometric mean of price relatives MTP Dec 2023 Series I
	d. S The cost of ir a. F	Simple geometric mean of price relatives MTP Dec 2023 Series I ndex number is always
	d. S The cost of ir a. F b. C	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number
	d. S The cost of in a. F b. C c. V	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number
	d. S The cost of in a. F b. C c. V	Simple geometric mean of price relatives MTP Dec 2023 Series I ndex number is always Price Index number Quantity Index number Weighted Index number
	d. S The cost of ir a. F b. C c. V d. V	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Weighted Index number /alue index number
C	d. S The cost of ir a. F b. C c. W d. N	Simple geometric mean of price relatives MTP Dec 2023 Series I Adex number is always Price Index number Quantity Index number Veighted Index number /alue index number MTP Dec 2023 Series II
C	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Weighted Index number /alue index number I formula for calculating index number satisfies the
C	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Veighted Index number /alue index number I formula for calculating index number satisfies the Jntil Test Factor Reversal Test
C	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Veighted Index number /alue index number I formula for calculating index number satisfies the Jntil Test
C	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Veighted Index number /alue index number I formula for calculating index number satisfies the Jntil Test Factor Reversal Test Both (a) and (b)
C (49)C	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. N	Simple geometric mean of price relatives MTP Dec 2023 Series I Adex number is always Price Index number Quantity Index number Veighted Index number Value index number I formula for calculating index number satisfies the Until Test Factor Reversal Test Both (a) and (b) None of these MTP June 24 Series I
C (49)C (53)	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. M	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Veighted Index number Value index number Value index number I formula for calculating index number satisfies the Jntil Test Factor Reversal Test Both (a) and (b) None of these Irice index is commonly known as
C (49)C	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. M	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Veighted Index number Value index number
C (49)C (53)	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. M Consumer pr a. C	Simple geometric mean of price relatives MTP Dec 2023 Series I Adex number is always Price Index number Quantity Index number Veighted Index number Value index number Value index number I formula for calculating index number satisfies the Until Test Factor Reversal Test Both (a) and (b) None of these Trice index is commonly known as Chain Based index deal index
C (49)C (53)	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. M Consumer pr a. C	Simple geometric mean of price relatives MTP Dec 2023 Series I Index number is always Price Index number Quantity Index number Veighted Index number /alue index number Jntil Test Factor Reversal Test Both (a) and (b) None of these trice index is commonly known as Chain Based index deal index Wholesale price index
C (49)C (53)	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. M Consumer pr a. C	Simple geometric mean of price relatives MTP Dec 2023 Series I Adex number is always Price Index number Quantity Index number Veighted Index number Value index number //alue index number I formula for calculating index number satisfies the Until Test Factor Reversal Test Both (a) and (b) None of these MTP June 24 Series I rice index is commonly known as Chain Based index deal index Wholesale price index Cost of living index.
C (49)C (53) D	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. M Consumer pr a. C b. I c. W d. W	Simple geometric mean of price relatives MTP Dec 2023 Series I ndex number is always Price Index number Quantity Index number Veighted Index number /alue index number Jntil Test Factor Reversal Test Both (a) and (b) None of these Irice index is commonly known as Chain Based index Wholesale price index Wholesale price index Cost of living index. MTP June 24 Series III
C (49)C (53)	d. S The cost of ir a. F b. C c. W d. W Fisher's idea a. U b. F c. E d. M Consumer pr a. C b. I c. W d. C	Simple geometric mean of price relatives MTP Dec 2023 Series I Adex number is always Price Index number Quantity Index number Veighted Index number Value index number //alue index number I formula for calculating index number satisfies the Until Test Factor Reversal Test Both (a) and (b) None of these MTP June 24 Series I rice index is commonly known as Chain Based index deal index Wholesale price index Cost of living index.





	а. с.	Unit Test Factor Reversal Test	b. d.	Time Reversal Test None of these	
				MTP 1 Jan 2	25
(61)	Which	of the following statement is tru	le?		
D	a.	Paasche's index number is based on base year quantity			
	b.	Fisher's index satisfies the circular test			
	с.	Arithmetic mean is the most appropriate average for constructing the index number Splicing means constructing one continuous series from two different indices on the basis of common base.			
	d.				

Theory MCQs

Chapter 14: Measures of Central Tendency and Dispersion

PYQs

		PYQ May 18
(1)	If the variables x and z are so related that $z = ax+b$ for each where a and b	o are constant,
Α	then $z = ax + b$	
	a. True b. False	
	c. Both d. None of these	
(0)	lé angle item is values al hud E.A. Mis	PYQ May 18
(2)	If each item is reduced by 15 A. M is	
A	 a. Reduced by 15 b. Increased by 15 	
	c. Reduced by 10	
	d. None of these	
		PYQ May 18
(3)	The average of a series of overlapping averages, each of which is based	
(0) A	number of item within a series is know as.	
	a. Moving average	
	b. Weighted average	
	c. Simple average	
	d. None of these	
		PYQ May 18
(6)	Which one of the following is not a central tendency?	
Α		
	a. Mean Deviation	





	 b. Arithmetic mean c. Median d. Mode
	d. Mode PYQ June 22
(16)	When each value does not have equal importance then
D	a. AM b. GM
	c. HM d. Weighted Avg.
(20)	PYQ June 24 According to the empirical rule, if the data form a "bell-shaped" distribution, then the
(20) D	 maximum and minimum frequencies occur at and respectively a. Middle, left end b. Middle, right end c. End, middle d. Middle, ends
(12)	Which of the following measure does not possess mathematical properties?
D	
	a. Arithmetic mean
	b. Geometric mean
	c. Harmonic mean
	d. Median PYQ June 24
(23)	Which of the following measure of central tendency will be unaffected if the lowest and
с,	highest observation are removed?
	a. Mean b. Mode
	c. Median d. Range
(0.1)	PYQ June 24
(24) B	Which of the following measure of central tendency depends on the position of the observation?
D	a. Mean
	b. Median
	c. Mode
	d. Harmonic Mean
	PYQ Dec. 21
(7) P	One hundred participants expressed their opinion on recommending a new product to their friends using the attributes : most unlikely, not sure, likely, most likely. The
B ☆	appropriate measure of central tendency that can be used here is
~	a. Mean
	b. Mode
	c. Geometric mean
	d. Harmonic mean
	PYQ Sep 24
(9) B	What is the range of a data set? a. The difference between the mean and median of the data set
D	 a. The difference between the mean and median of the data set b. The difference between the highest and lowest values in the data set
	c. The number of data points in the data set
	d. The standard deviation of the data set





(1) C	Which of the following measure of dispersion is based on absolute deviations?				
	a. Range				
	b. S. Dc. Mean deviation				
	d. Quartile deviation				
(16)	PYQ Jan. 21 The best statistical measure used for comparing two series is				
С					
	a. Mean absolute deviationb. Range				
	c. Coefficient of variation				
	d. Standard deviation PYQ Dec 22				
(9) P	is based on all the observations and is based on the central fifty				
В	percent of the observations. a. Mean deviation, Range				
	b. Mean deviation, quartile deviation				
	c. Range, Standard deviationd. Quartile deviation, standard deviation				
	PYQ Sep 24				
(16) B	In which of the following there is no impact of presence of extreme observations?				
U	a. Range				
	 b. Quartile deviation c. Standard deviation 				
	c. Standard deviation d. Variance				
MTPs					
	MTP March 21				
(14) A	The sum of the squares of deviations of a set of observations has the smallest value, when the deviations are taken from their:				
	a. A.M b. H.M				
	c. G.M d. None MTP March 21				
(17)	Which of the following measures of central tendency cannot be calculated by graphical				
Α	method? a. Mean b. Mode				
	c. Median d. Quartile				
(2.2)	MTP Oct 21				
(26) C	The algebraic sum of the deviations of a frequency distribution from its mean is always,				
	a. greater than zerob. less than zero				
	C. Zero				
	d. a non-zero number				



ISTATS ULTIMATE CA

IMPORTANT THEORY CONTENT & MCQS OF CA FOUNDATION STATS COMPILED BY CA. PRANAV POPAT

	MTP Oct 21
(27) C	Pooled Mean is also called a. Mean
	b. Geometric Mean
	c. Grouped Mean
	d. none MTP June 24 Series II
(34)	& are called ratio averages:
Α	a. H.M & G.M b. H.M. & A.M
	c. A.M. & G.M. d. None of these
	MTP June 2023 Series II
(16)	A shopkeeper wants to place an order for t-shirts with the wholesaler based on past
	sales data. The size he orders will be decided looking at the of past sales data? a. Mean
	b. Median
	c. Mode
	d. None of the above
	MTP June 2023 Series I
(15) C	Mode is: a. Least frequent value
C	 a. Least frequent value b. Middle Most value
	c. Most frequent Value
	d. None of these
	MTP Nov 21
(13)	Which of the following is not a criteria for ideal measure of central tendency?
Α	a. It should be ambiguously defined
	b. It should be simple to compute
	c. It should be based on all the observations
	d. None of these
(9)	MTP June 2023 Series I Which of the following is a correct statement?
(8) C	a. Range is unaffected by the change in origin or change in scale
Ū	b. Range is affected by the change in origin or change in scale
	c. Range is unaffected by the change in origin but affected by change in scale
	d. Range is affected by the change in origin but unaffected by change in scale
	MTP Sep 24 Series I
(76) B	If the same amount is added or subtracted from all the of an individual series then the standard deviation and variance both shall be
	a. Changed b. Unchanged
	c. Same d. None of these

Theory MCQs

Chapter 17: Correlation & Regression

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PYQs:

			PYQ Nov. 19
(4)	If the plotted points in a	a scatter diagram lie	e from upper left to lower right, then correlation is
В	a. Positive	b. Ne	egative
	c. Zero	d. No	one of these
			PYQ Nov. 20
(5)	Scatter diagram does	-	
D	a. Find the type of o		
		variables correlated	
		near or non-linear c	
	d. Find the numeric	cal value of correlati	
(6)	If the data points of (V	V) corios on a cost	PYQ July 21
(6) C			ter diagram lie along a straight line that goes o right, then the data exhibit
C	- correlation.		
	a. Direct		
	b. Imperfect indired	` t	
	c. Indirect		
	d. Imperfect direct		
			PYQ May 18
(2)	Correlation coefficient	is of the	e units of measurements.
В	a. dependent		dependent
	c. both	d. no	one of these
			PYQ June 22
(13)	Which of the follow	ving is used to find o	correlation between two qualitative
В	characteristics		
		rl Pearson	
	-	earman rank correl	ation
		oncurrent deviation	
	d. Sc	atter diagram	DVO huma 04
(17)	The range of the eas	fficient of correlatio	PYQ June 24
(17) D		een -1 and 1	
U		een -1 and 1 includi	ing 1
		een -1 and 1 includi	-
		een -1 and 1 includi	-
			PYQ June 24
(7)	Spearman's correlatio	on Coefficient is use	-
В		ttering of the data	
	b. The rela	tionship in variables	S
	c. The med	lian of a data	
	d. The rang	ge of a data	
			PYQ May 18
(1)	In the method of Cond	current Deviations, o	only the directions of change (Positive
С			oles are taken into account for calculation of
	a. Coeffici	ent of SD	
		ent of regression	





	c. d.	Coefficie None of	ent of correlation	on		
						PYQ June 19
(5)	A.M. of reg	gression coe	fficient is			
\$	а.	Equal to	r			
В	b.	Greater	Greater than or equal to r			
	с.	Half of r				
	d.	None of	these			
						PYQ July 21
(17)	The regression coefficients remain unchanged due					
Α	а.	Shift to	b.	Shift to scale		
		origin				
	с.	Always	d.	Never		

	PYQ Sep 24
(29) B	 Which of the following statement is correct? a. Regression Coefficients are independent of origin and scale b. Both regression coefficients must be less than unity c. The regression lines of two independent variables are parallel to each other d. If two regression lines coincide with each other, there is no correlation between the variables
	PYQ Sep 24
(30) D	 Which of the following statement is correct regarding limit of the two regression coefficients? a. Must be positive b. No limit c. One positive and the other negative d. Product of the regression coefficients must be numerically less than unity
	PYQ Sep 24
(5) A	In case of "Insurance companies' profit" and "The number of claims they have to pay", there exists a: a. Negative correlation b. Positive correlation c. No correlation d. It cannot be predicted

MTPs:

			MTP Apr 21
(4)	Price	and Demand are the example of	
С	a.	No correlation	
	b.	Positive correlation	





	c. d.	Negative correlation None of these			
				Ν	ATP June 2023 Series II
(11) D		r diagram of two variables develo nts which kind of correlation? Positive Negative Curvilinear No correlation	ping a p	attern of mul	
					MTP March 2021
(8)	Correlat	ion coefficient r, ${\cal B}_{_{xy}}$ and ${\cal B}_{_{yx}}$ are	all have	signs	
В	a.	Different	b.	Same	
	с.	Both	d.	None	
					MTP Dec 23 Series I
(42) C	lf one re	gression coefficient is unity	, the oth	er must be _	unity
	а.	more than, more than			
	b.	less than, less than			
	с.	more than, less than			
	d.	positive, negative			
(54) D	16 4	·	\sim		MTP June 24 Series III
(51)B	if two var a.	iables are uncorrelated then reg Parallel	ression l	ines are	
	a. b.	Perpendicular			
	ы. С.	Coincident			
	d.	Inclined at 45°			
	ui				MTP June 24 Series III
(52)B	Correlati	on coefficient between X and Y w	/ill be ne	gative when	
. ,	а.	X and Y are decreasing		0	
	b.	X is increasing, Y is decreasin	g		
	с.	X and Y are increasing			
	d.	None			

