CHAPTER

13

18N

191

19N

STATISTICAL DESCRIPTION OF DATA

arks of Objective, Short Notes, Distinguish Between, Descriptive & Practical Questions

Legend

Distinguish Descriptive Practical

| Distinguish | Descriptive | Practical

For detailed analysis Login at www.scanneradda.com for registration and password see first page of this book.

Examinations

22,1

21D

Solved Scanner CA Foundation Paper - 3C







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PAST YEAR QUESTIONS AND ANSWERS

2009 - JUNE		
[1] Mid values are also called		
(a) Lower limit	(b) Upper limit	
(c) Class mark	(d) None	(1 mark)
Answer:		
(c) Mid-values are also c	alled class mark.	
Class Mark = Lowerd	asslimt + Upperdasslimit	
	2	
[2] Which of the following is	not a two-dimensional figure?	
(a) Line Diagram	(b) Pie Diagram	19-27-2
(c) Square Diagram	(d) Rectangle Diagram	(1 mark)
Answer:		TO THE PARTY OF THE PARTY.
(a) Line Diagram.		
[3] Less than type and more	than type Ogives meet at a po	int known as:
(a) Mean	(b) Median	
(c) Mode	(d) None	- (1 mark)
Answer:		
(b) By plotting cumulat	ive frequency against the res	pective class
boundary, we get oli	ves. There are two type of olive	es:
(i) Less than type of	give.	
(ii) More than type of	ogive.	

Olives may be considered for obtaining quartiles graphically. If a perpendicular is drawn from the point of intersection of two olives on the horizontal axis, then the x-value of this point gives us the value of median, the second or middle quartile.

Therefore, the meeting point of less than type ogive and more than type ogive is known as 'Median'.

20	09 - DECEMBER			and the second s				
[4]	Arrange the dimensions of Ba	r diagr	am, Cube diagram	, Pie diagram in				
-	sequence.							
	(a) 1, 3, 2		2, 1, 3	Maria de Caractería de Caracte				
	(c) 2, 3, 1	(d)	3, 2, 1	(1 mark)				
	Answer:		School of the State of the Stat	All Control of the Adjust Control of the Control of				
	(a) Bar diagram is one dime							
	Cube diagram has 3 dime		s viz. length breadth	and height and				
	hence is three-dimension	~		naalii n				
	Pie-diagram is two-dimer			12.8/2.01				
	Therefore, if we arrange			A 100 100 100 100 100 100 100 100 100 10				
	Bar diagram, cube-diagram			, 3, 2.				
[5]	With the help of histogram or							
	(a) Mean	, ,	Median					
	(c) Mode	(d)	First Quartile	(1 mark)				
	Answer:	The,	17. S.	General March				
100	(c) Histogram is used to fir	id Mod	le. [Self Explanator	y]				
[6]	Nationality of a person is:	•		A SHOW THE STATE OF THE STATE O				
	(a) Discrete variable	(b)	An attribute	TAN IN				
	(c) Continuous variable	(d)	None	(1 mark)				
	Answer:							
	(b) A qualitative characterist	ic is kr	own as an attribute	9.				
136	So the nationality of a percharacteristic.							
[7]	If we plot less than and more graph plotted is	than ty	pe frequency distri	bution, then the				
200	(a) Histogram	(b)	Frequency Curve	4. (V				
	(c) Ogive	(d)	and the second section of the section of the second section of the section of the second section of the section of th	(1 mark)				
1								

Solved Scanner CA Foundation Paper - 3C

Answer:

(c) If we plot less than and more than type frequency distribution, then the graph plotted is Ogive.

Ogive are of two types - Less than type ogive and more than type ogive. [self-explanatory]

2010 - JUNE

- [8] The primary rules that should be observed in classification
 - (i) As far as possible, the class should be of equal width
 - (ii) The classes should be exhaustive
 - (iii) The classes should be unambiguously defined.

Then which of the following is correct

(a) only (i) and (ii)

- (b) only (ii) and (iii)
- (c) only (i) and (iii)
- (d) all (i), (ii) and (iii)

(1 mark)

Answer:

- (b) Requisites of a good classification are:
 - (1) It should be exhaustive
 - (2) It should be mutually exclusive
 - (3) It should be unambiguous
 - (4) It should be stable and flexible
 - (5) It should be homogeneous
 - (6) It should be a revealing classification
- [9] Using Ogive Curve, we can determine
 - (a) Median

(b) Quartile

(c) Both (a) and (b)

(d) None.

(1 mark)

Answer:

(c) Olives are considered for obtaining quartiles graphically. If a perpendicular is drawn from point of intersection of two Olives on horizontal axis, then x-value of this point gives us the value of median (2nd or middle quartile).

2010 - DECEMBER

rin1	Mode	can	be	obtained	from
------	------	-----	----	----------	------

(a) Frequency polygon.

(b) Histogram.

(c) Ogive

(d) All of the above

(1 mark)

Answer:

(b) Mode can be obtained from histogram

[11] The data obtained by the internet are

(a) Primary data

(b) Secondary data

(c) Both (a) and (b)

(d) None of these.

(1 mark)

Answer:

(b) Secondary data

[12] The statistical measure computed from the sample observations alone have been termed as

(a) estimate

(b) parameter.

(c) statistic

(d) attribute.

(1 mark)

Answer:

(c) Statistic

2011 - JUNE

[13] When the two curves of ogive intersect, the point of intersection provides:

(a) First Quartile

(b) Second Quartile

(c) Third Quartile

(d) Mode.

(1 mark)

Answer:

(b) We know, that the two curves viz. Less than Ogive & More than Ogive intersect at a point called MEDIAN or we can say Second Quartile.

[14] Frequency Density can be termed as:

(a) Class frequency to the cumulative frequency

(b) Class frequency to the total frequency

3.682

Solved Scanner CA Foundation Paper - 3C

(c) Class frequency to the class length

(d) Class length to the class frequency.

(1 mark)

Answer:

(c) Class frequency to the class length.

[15] The Choronological classification of data are classified on the basis of:

(a) Attributes

(b) Area

(c) Time

(d) Class Interval

(1 mark)

Answer:

(c) Chronological Classification data are classified on the basis of "TIME".

[16] Arrange the following dimension wise: pie-diagram, bar-diagram and cubic diagram.

(a) 1,2,3

(b) 3,1,2

(c) 3,2,1

(d) 2.1,3

(1 mark)

Answer:

(d) Pie-Diagram :Two Dimensional Diagram (2)

These Diagrams are also called as "Area-Diagrams".

Used when different segments or components of values are also to be presented.

Bar-Diagram: One Dimensional Diagram (1) means such diagrams where only one dimensional measurement i.e. height is used. There is no importance of width or thickness in these diagrams. The heights of bars are taken on the basis of values.

Cubic-Diagram: Three Dimensional Diagram (3) are those in which three dimensions viz length, breadth & height are taken into account, used when these is wide range of data and three different but inter-related features of data are to be represented simultaneously.

2011 - DECEMBER

[17] The frequency of class 20-30 in the following data is

	O HE INTO	TOTOWN	y uala is	Water Comment	For
Class	0-10	10-20	20-30	30-40	40-50
Cumulative Frequency	5	13	28	34	38

	[Chapter ⇒ 1	3] Statistical I	Description of	Data 3.683
	(a) 5 (c) 15 Answer: (c)	(b)	28 13	(1 mark)
17	Class	Cumulative	freq.	Frequency
	0-10	5		5
	10-20	13		13 - 5 = 8
	20-30	28	received to the second	28 – 13 = 15
	30-40	34	Mary St.	34 - 28 = 6
	40-50	38		38 - 34 = 4
[18]	The Graphical repre- (a) Ogive Curve (c) Line diagram Answer: (a) The median is c	(d)	Frequency Co Histogram	
[19]	Which of the following	ng is not a two		agram?
4. J	(a) Square diagram(c) Rectangular diagramAnswer:(b) Line diagram is	gram (d)	Line diagram Pie-chart	1 mark
	(a) Live Glagiani is		sional diagram	
201	12 - JUNE		more substitution of the s	maio di malifi fudi affarrasi di Am
1001	5 which			and the second of the second

[20] From which graphical representation, we can calculate partition values?

(a) Lorenz curve(c) Histogram

(b) Ogive curve

(d) None of the above.

(1 mark)

Answer:

(b) We can calculate partition values with the help of O'Give Curve for graphical representation.

3.684

Solved Scanner CA Foundation Paper - 3C

[21] The data given below refers to the marks gained by a group of students:

Marks	Below 10	Below 20	Below 30	Below 40	Below 50
No. of Students	15	38	65	84	100

The no. of students getting marks more than 30 would be?

(a) 50

(b) 53

(c) 35

(d) 62

(1 mark)

Answer:

(c) We can arrange the data as follows:

Marks	0-10	10-20	20-30	30-40	40-50
Cumulative Frequency	15	38	65	84	100

The above data can further be presented as:

Marks	0-10	10-20	20-30	30-40	40-50
Frequency	15	38 - 15	65 - 38	84 - 65	100 - 84
		= 23	= 27	= 19	= 16

Therefore, the number of students who got more than 30 marks = 19 + 16 = 35.

- [22] Cost of Sugar in a month under the heads raw materials, labour, direct production and others were 12,20,35 & 23 units respectively. The difference between their central angles for the largest & smallest components of the cost of Sugar is
 - (a) 92

(b) 72

(c) 48

(d) 56

(1 mark)

Answer:

(a)

Cost of SUGAR:

HEADUnitsAngular-ValueRaw-Material12 $\frac{12}{90} \times 360 = 48$ (Smallest)Labour20 $\frac{20}{90} \times 360 = 80$

[Chapter ➡ 13] Statistical Description of Data ■

3.685

Direct Production 35

$$\frac{35}{90} \times 360 = 140$$
 (Largest)

Others

$$\frac{23}{90 \text{ Units}} \frac{23}{90} \times 360 = 92$$

.. Difference between their central angles of largest components = 140 - 48 = 92

2012 - DECEMBER

- [23] What is a exclusive series?
 - (a) In which both upper and lower limit are not included in class frequency.
 - (b) In which lower limit is not included in class frequency.
 - (c) In which upper limit is not included in class frequency.
 - (d) None of the above.

(1 mark)

Answer:

- (c) In exclusive series, upper limit is not included in class frequency.
- [24] For data on frequency distribution of weights:

70, 73, 49, 57, 56, 44, 56, 71, 65, 62, 60, 50, 55, 49, 63 and 45 If we assume class length as 5, the number of class intervals would be

(a) 5

(b) 6

(c) 7

(d) 8

(1 mark)

Answer:

(c)

C.I.	40 45	45-50	50-55	55-60	60-65	65-70	70-75
No. of c	class interv	als = 7		9-31-	and the second of the second	er in very	

2013 - JUNE

[25] A pie diagram is used to represent the following data:

Source:

Wealth Customs Excise Income

> tax tax

Revenue in

million rupees:

120

180

240 180

The central angles in the pie diagram corresponding to income tax and wealth tax respectively:

(a) (120°, 90°)

(b) (90°, 120°)

(c) (60°, 120°)

(d) (90°, 60°)

(1 mark)

Answer:

(a) Central Angle

$$= \frac{\text{Revenue of income tax}}{\text{Total Revenue}} \times 360^{\circ}$$

$$= \frac{240}{120 + 180 + 240 + 180} \times 360^{\circ}$$

$$=\frac{240}{720}\times360=120$$

Central Angle of wealth tax = $\frac{\text{Revenue of wealth tax}}{\text{Tends}} \times 360$ Total Revenue

$$=\frac{180}{720}\times360$$

2013 - DECEMBER

[26] Difference between the maximum and minimum value of a given data is called

(a) Width

(b) Size

(c) Range

(d) Class

Answer:

(c) Difference between the maximum and minimum value of given data is called Range.

[Chapter → 13] Statistical Description of Data 3.687

[27] If class interval is 10 - 14, 15 - 19, 20 - 24, then the first class is

(b) 9.5 - 14.5

(d) 9-15

Answer:

(b) Class intervals is 10 - 14, 15 - 19, 20 - 24,

$$D = 15 - 14 = 1$$

$$\frac{D}{2} = \frac{1}{2} = 0.5$$

First class is (10 - 0.5) - (14 + 0.5)= 9.5 - 14.5

[28] The difference between the upper and lower limit of a class is called

(a) Class Interval

(b) Mid Value

(c) Class boundary

(d) Frequency

(1 mark)

Answer:

(a) The difference between the upper and lower limit of class is called class interval (class width).

2014 - JUNE

[29] There were 200 employees in an office in which 150 were married. Total male employees were 160 out of which 120 were married. What was the number of female unmarried employees?

(a) 30

(b) 10

(c) 40

(d) 50

Answer:

(b) Total Employees in the office

= 200

No. of Employees who are married

=150No. of Employees who are unmarried = 200 - 150 = 50

No. of Total male Employees

= 160

No. of Married male Employees

= 120= 160 - 120 = 40

No. of unmarried male Employees No. of females who are unmarried

=50 - 40 = 10

3.688

Solved Scanner CA Foundation Paper - 3C

- [30] "The less than Ogive" is a:
 - (a) U-Shaped Curve
- (b) J-Shaped Curve

(c) S-Shaped

(d) Bell Shaped Curve

(1 mark)

Answer:

- (c) "The less than Ogive" is a s shaped.
- [31] The following data relates to the marks of a group of students.

Marks	No. of Students
More than 70%	07
More than 60%	18
More than 50%	40
More than 40%	60
More than 30%	75
More than 20%	100

How many students have got marks less than 50%?

(a) 60

· (b) 82

(c) 40

(d) 53

(1 mark)

Answer:

(a)

Marks (in%) C.I.	Frequency
20 - 30	100 - 75 =25
30 - 40	75 - 60 =15
40 - 50	60 - 40 =20
50 - 60	40 - 18 =22
60 - 70	18 - 07 =11
70 - 80	=07

No. of students who got marks less than 50% = 25 + 15 + 20 = 60

[Chapter ⇒ 13] Statistical Description of Data 3.689 32] To draw Histogram, the frequency distribution should be: (a) Inclusive type (b) Exclusive type (c) Inclusive and Exclusive type (d) None of these. Answer: (b) To Draw Histogram, the frequency distribution should be exclusive type. 2014 - DECEMBER 33] The most appropriate diagram to represent the five - year plan outlay of India in different economic sectors is: (a) Pie diagram (b) Histogram (c) Line-Graph (d) Frequency Polygon (1 mark) Answer: (a) Pie diagram 34] If the fluctuations in the observed value are very small as compared to the size of the item, it is presented by: (b) Ogive curve (a) Z chart (d) Control chart (c) False base line (1 mark) Answer: (c) If the fluctuations in the observed value are very small as

compared to the size of the item, it is present by false base line.

[35] For constructing a histogram, the class-intervals of a frequency distribution must be

(a) equal

(b) unequal

(c) equal or unequal

(d) none of these

(1 mark)

Answer:

(a) For constructing a histogram, the class-intervals of a frequency distribution must be equal.

3.6	Solved Scanner CA Fou	ında	tion Paper - 3C	
[36]	100 persons are classified into m classes. This data classification	ale/ n is:	female and graduate/	non-graduate
*	(a) Cardinal data	(b)	Ordinal data	
	(c) Spatial Series data	(d)		(1 mark)
	Answer:	Ġ,		
	(b) ordinal data	16		
201	I5 - JUNE			
[37]	If we draw a perpendicular on x	(-axi	s from the point of in	ter-section of
	both less than and more than'	freq	uency curves we will	get the value
	(a) mode (c) arithmetic mean	(p)		
	Answer:	(d)	third quartile	(1 mark)
			A Company	
	(b) If we draw a perpendicular of both 'less than' and 'more	on x	-axis from the point o	f intersection
MERCH	of both 'less than' and 'more value of 'Median'.			
[38]	Histogram is used for the prese	ntat	ion of the following a	
				pe of series
	(b) Continuous frequency distrib	utio	n ·	4 March 1988
. 6	(c) Discrete frequency distribut	ion	The second second	tikin wil
10	(d) Individual observation		S. C. C. Carlotte and C.	4
	Answer:			(1 mark)
	(b) Histogram is used for the frequency distribution of	ne p	presentation of the	CONTINUE
[00]				
[39]	Curve obtained by joining the no	inte	Whose was	are the unnex
	חום פומטט ווונטו עמוט מוונ	1 V C	coordinates are the co	orresponding
	יים מיים ומיים	u.		- coperium g
	(a) Frequency Polygon	(p)	Frequency curve	
	(c) Histogram	(d)	Ogive.	(1 mark)
	Answer:	100	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	(d) Curve obtained by joining	the p	points whose x co-ord	inate are the
	upper littles of the class	inte	rvals and v co-ordina	ites are the
	corresponding cumulative	freq	uencies is called 'o' g	ive.

[40] The number of observations between 150 and 200 based on the following data is

Value: More More More More than 100 than 150 than 200 than 250

No. of observations: 76 63 28

(a) 46 (b) 35

(c) 28 (d) 23 (1 mark)

Answer:

(b)

C.I.	Frequency			
100-150	76-63	= 13		
150-200	63-28	= 35		
200-250	28-05	= 23		
250-300		05		

The No. of observation b/w 150 and 200 is 35

[41] The number of car accidents in seven days in a locality are given below:

No. of accidents: 0 1 2 3 4 5 6 7

Frequency: 12 9 11 13 8 9 6 3

What will be the number of cases when 4 or more accidents occurred?

(a) 32 (b) 41

(c) 26 (d) 18 (1 mark)

Answer:

(c)

No. of Accident: 0 1 2 3 4 5 6 7

Frequency: 12 9 11 13 8 9 6 3

No. of Cases when 4 or more Accidents occurred = 8 + 9 + 6 + 3 = 26

3.692 Solved Scanner CA Foundation Paper - 3C

2015 - DECEMBER

					7,634
1421	The most common form of c	diagram	matic repres	entation of	a grouped
	frequency distribution is:				
	(a) Histogram		Ogive		
ay's	(c) Both	(d)	None		(1 mark
	Answer:				
	(a) The most common form	of diag	ammatic repr	resentation	of a group
£ -	frequency distribution is	Histog	ıram.		
[43]	Classification is of kir	nds.	800	With the state of	
	(a) Two	(b)	Inree	4	(1 made
	* 1 A T T T T T T T T T T T T T T T T T T	(a)	Four		(1 man)
	Answer:				
and the	(d) Classification is of four l	ana. — of vo	richle is know	w sc.	
[44]	The chart that uses logarithm	ii Ui Va (h)	Line chart	mas.	
	(a) Ratio chart (c) Multiple line chart	. ,		line chart	(1 mark
	Answer:		Oumponom.		
	(a) The chart that uses logar	rithm o	f variable is k	nown as F	latio Chart
1451	Find the number of obser	vation	between 250	and 300) from the
[-,0]	following data:				
	Value more than:	200	250	300	500
100	The same of	4 3 3 7	20	72.13	0
	No. of observation:	,56	38	15	ν

(a) 38

(b) 23

(c) 15

(d) None of the above (1 mark)

Answer:

C.I	Frequency
200-250	56-38 = 18
250-300	38-15 = 23

[Chapter ➡ 13] Statistical Description of Data ■

300-350 | 15-0 = 15 350-400 | 0 - 0 = 0

No. of observation b/w 250 and 350 = 23

2016 - JUNE

- [46] Data collected on religion from the census reports are:
 - (a) Primary data

(b) Secondary data

(c) Sample data

(d) (a) or (b)

(1 mark

3,693

Answer:

(b) DATA collected on religion from the census reports are secondary data.

2016 - DECEMBER

- [47] In collection of data which of the following interview methods:
 - (a) Personal interview method
 - (b) Telephone interview method
 - (c) Published data
 - (d) (a) and (b)

(1 mark)

Answer:

- (d) Personal Interview Method and Telephone Interview Method are the Interview Method.
- [48] For constructing a histogram the class intervals of a frequency distribution must be of the following type:
 - (a) Equal

(b) Unequal

(c) Equal or Unequal

(d) None of these

(1 mark)

Answer:

(a) For constructing a histogram the class intervals of a frequency distribution must be equal.

Solved Scanner CA Foundation Paper - 3C 3.694

- [49] Profits made by XYZ Bank which is a blue chip company in different years refer to:
 - (a) An attribute
 - (b) A discrete variable
 - (c) A continuous variable
 - (d) None of these.

(1 mark)

Answer:

- (c) Profit made by XYZ Bank in different years refer to a continuous variable because Blue chips company's profit always increased.
- [50] Mode of presentation data
 - (a) Textual presentation
- (b) Tabulation
- (c) Oral presentation
- (d) (a) and (b)

(1 mark)

Answer:

(d) Mode of presentation data are textual presentation and tabulation.

2017 - JUNE

- [51] If the data represent costs spent on conducting an examination under various needs, then the most suitable diagram will be:
 - (a) Pie diagram

(b) Frequency diagram

(c) Bar diagram

(d) Multiple bar diagram (1 mark)

- Answer:
- (a) If the data represent cost spent on conducting an examination under various heads then the most suitable diagram will be Pie diagram.
- [52] Frequency density corresponding to class interval is the ratio of :
 - (a) Class frequency to the total frequency
 - (b) Class frequency to the class length
 - (c) Class length to the class frequency
 - (d) Class frequency to the cumulative frequency

(1 mark)

Answer:

(b) Frequency density corresponding to a class Interval is the Ratio of class Frequency to the class Length.

Frequency density = Frequency of the class

Class width

[53] The point of intersection of less than ogive and greater than ogive curve gives us:

(a) Mean

(b) Mode

(c) Median

(d) None of the above.

(1 mark)

Answer:

(c) The point of intersection of less than '0' give and greater than '0' give curve gives us Median.

2017 - DECEMBER

- [54] 'Stub' of a table is the
 - (a) Left part of the table describing the columns
 - (b) Right part of the table describing the columns
 - (c) Right part of the table describing the rows
 - (d) Left part of the table describing the rows.

(1 mark)

Answer:

- (d) 'Stub' of a table is the left part of the table describing the rows.
- [55] Frequency density corresponding to a class interval is the ratio of
 - (a) Class frequency to total frequency
 - (b) Class frequency to the class length
 - (c) Class length to class frequency
 - (d) Class frequency to the cumulative frequency.

(1 mark)

Answer:

Please refer question no. [52] on page no. 694.

3.6	96 Solvei	Scanner C	A Foundat	ion Paper	- 3C	
derman der			and the second seco	*		
20	18 - MAY					
20	TO MAT					
[56]	Frequency de (a) Histogram (b) Ogive (c) Frequency (d) None whe Answer: (a) Frequency Divided bar ch	y polygon en the class y density is	d in the cor es are of ur used in the	nstruction of	lh:	(1 mark) gram.
[57]	(a) Comparin(b) The relation(c) (a) or (b)(d) (a) and (b)Answer:(d) Divided	g different on of different of	components ent compone	ents to the	table comparing	
	to the tabl					
201	8 - November				.	
[58]	The following	frequency (distribution		made of the	
	X :	12	17	24	36	45
Fla	F: is classified as (a) Continuou	2 is distribution	5	3	8	9
	(b) Discrete d	istribution e frequenc	y distributio			(1 mark)

parts in statistics is A Pie chart.

[62] The number of times a particular items occurs in a class interval is called its:

(a) Mean

(b) Frequency

(c) Cumulative frequency

(d) None of the above (1 mark)

Answer:

(b) The number of times a particular items occurs in a Class Interval is called its Frequency. sup this iseb to he retained for

3.698 Solved Scanner CA Foundation Paper - 3C

- [63] An ogive is a graphical representation of
 - (a) Cumulative frequency distribution
 - (b) A frequency distribution
 - (c) Ungrouped data
 - (d) None of the above

Answer:

(a) An 'O' give is a graphical representation of cumulative frequency distribution.

[64]

Class

0 - 10

10 - 20 20 - 30

30 - 40 40 - 50

Frequency 4 6 20

3

For the class 20-30. Cumulative frequency is:

(a) 10

(b) 26

(c) 30

(d) 41

(1 mark)

Answer:

C.I	F	C. F
0-10	4	4.
10-20	6	10
20-30	20	30
30-40	8	38
40-50	3	

Cumulative frequency of Class Interval '20-30' is 30.

2019 - JUNE

- [65] Which of the following graph is suitable for cumulative frequency distribution? President in the property of the state of th
 - (a) 'O'give
 - (b) Histogram

a Caster A	[Chapter - 13] Statistical Description of Data	3.699
	(c) G.M	A 14. U.S.
	(c) A.M	(1 mark
and Table of	Answer:	ATTEN
	(a) 'O'give is graph suitable for cumulative frequency dis	stribution.
[66]	Histogram can be shown as	of same
- 24	(a) Ellipse	14, 4, 11, 1
	(b) Rectangle 15 LV 30552 is sodd 2 V a svig O	
	(c) Hyperbola	
Augus	(d) Circle	(1 mark
	Answer:	
[67]	(b) Histogram can be shown as Rectangle.	unas
[67]	Series is continuous.	
	(a) Open ended (b) Exclusive	J. (5)
Will be	(c) Close ended	W. 10)
	(d) Unequal call intervals	erina .
	Answer:	(1 mark)
	(b) Exclusive Series is continuous.	
[68]		
	(a) Mean	
•	(b) Mode	
	(c) Median	
	(d) None	(1 mark)
	Answer:	
	(c) 'O'give graph is used for finding 'Median'.	
[69]	Histogram is used for finding	
	(a) Mode	
	(b) Mean	niu Pharach
1	(c) First quartile	
	(d) None	(1 mark)
AL VIVE	Answer:	Miles Co.
40.75	(a) Histogram is used for finding 'Mode'.	
	. (1984년) : : [1985년 : 1985년 : 1984년 :	
		and the second

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Solved Scanner CA Foundation Paper - 3C 3.700

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- [70] The graphical representation of cumulative frequency distribution is called.
 - (a) Histogram
 - (b) Historiagram
 - (c) Ogive
 - (d) None

(1 mark)

Answer:

(c) A curve that represents the cumulative frequency distribution of a grouped data on a graph is called ogive. Cumulative frequency on y-axis

Class interval on x-axis

2020 - NOVEMBER

[71]	discounting discou	t that the
	average salary ₹ 47,000 is	
	(a) Descriptive statics	1
	(b) Inferential	
	(c) Detailed	
A MILE	(d) Undetailed	(1 mark)
du-left h	Answer:	(1 main)
in the s	(b) Inferential statistics.	
[72]	를 보고 마다 사이들이 모든 것으로 된다. 아마를 하나면 (2015년 CECE) 등 보고 없어 있다. 그런데 이번에 살아 바다 바다 얼마를 하는 때 아이들이 살아가 없는데 보고 있다. 그리다는 이번에	
	(a) quantitative	Çar.
A State	(b) qualitative	
	(c) textual	
	(d) undetailed	
D. 198	Answer:	(1 mark)
	(h) Statistics cannot doal with guality	

the second a sweet dish is:	
[73] Sweetness of a sweet dish is:	F 3.
(a) Allibute	
(b) Discrete variable (c) Continuous variable	
(d) Variable	(1 mark)
1 1	(I mark)
Answer: (a) Sweetness of a sweet dish is attribute.	t de
a manufactor used as a source of data	
(a) Secondary	
(c) Organize	
(d) Confidential	(1 mark)
Answer:	
(a) Census Report are used as a source of secondary da	ta.
[75] Types of cumulative frequencies are:	
(a) 1	
(b) 2	2 777
(c) 3	(d)
(d) 4	(1 mark)
Answer:	i ioni
(b) Cumulative frequencies are two types.	
(1) Less than C.F. (2) more than C.F.	67.000 you
[76] You are an auditor of a firm and the firm earns a profit of ₹ stated to them that the annual profit is ₹ 67,000. This is	type
of statistics.	4,14
(a) Descriptive (b) Detailed	
(c) Non detailed	Mill Will I I I
(d) Inferential	(1 mark)
Answer:	
(d) Inferential statistics.	

3.702 Solved Scanner CA Foundation	Paper - 3C
	waste to examine the
[77] The are used usually when	We wants to examine the
relationship between two variables.	
(a) Bar Graph	of the second of the
(b) Pie Chart	
(c) Line Chart	(1 mark)
(d) Scatter Plot	(1 mark)
Answer:	1000 1000 1000 1000 1000 1000 1000 100
(c) Line chart.	Message and All all and
[78] When data are classified according to classification.	one criterion, then it is called
(a) quantitative	
(b) qualitative	
(c) simple	
(d) factored	(1 mark)
Answer:	
(c) When data are classified according	g to characteristics then it is
called simple classification.	
2021 - JANUARY	
[79] A bar chart is drawn for	
(b) Nominal data	13.00
(c) Time series data	Santa Cara Santa San
(d) Comparing different components	(1 mark)
Answer:	and the second second
(d) A bar chart is drawn for comparing	different component.
[80] A tabular presentation can be used for	**
(a) Continuous sories data	
(b) Nominal data	
(c) Time series data for longer period	그러워 내용 사람들은 사람들은 사람들이 되었다면 살아 되었다면 다른데 모든데 없다.
(d) Primary data	그리다 생생님, 그리고 있는데, 남에 가장 아니라면 그리고 있는데 그리고 있다면 그는 그렇다.
Answer:	
	ed for Nominal data
(b) A Tabular presentation can be use	an intransfer dame.

miles o	The medical section of	[Chapter → 13] Statistical Description of Data	3.703
[81]	Av	ariable with qualitative characteristic is known as	7
, I(r)	(a)	Quality Variable	er,
	100	An attribute	.H. J.
		A discrete variable	
		A continuous variable	13 74
		swer:	(1 mark)
	(b)	A variable with qualitative characteristic is known as a	n Attribute
[82]	The	accuracy and consistency of data can be verified by	an Attribute.
73.	(a)	Scrutiny	The Basil
- 41.5	NO.	Internal Checking	South Selling
	(c)	External Checking	
· ·	(d)	Double Checking	(1 mark)
	An	swer:	up (ii man)
A Topic	(a)	The Accuracy and consistency of data can be verified	by scrutiny
[83]	Fro	m a histogram one cannot compute the approximate	value of
	(a)	Mode	
49	(b)	Standard deviation	Δ.
, J.	1	Median (C. Lille & Son Son See	
	(d)	Mean	(1 mark)
		swer:	4,015 - 1,110,011
	(b)	We can not compute the Approximate value of Standa	ard Deviation
10.01	The	from a Histogram.	Ho.
[84]	(2)	e left part of a table providing the description of rows i	s called.
		Caption Box - head	
in start		Box - head Stub	
T Tage of		Podu San	Augin (mil)
		Body	(1 mark)
		swer: The Later of the Control of th	
051	(C)	The Left part of a table providing the description of ro	ws is called
၀၁၂	IVIOC	le can be obtained from	
		Frequency polygon	All taj
	(D)	Histogram	2. 3. 3.

3.7	04	Solved Scanner CA Foundation Paper - 3C	
	(c)	Ogive	
		All of the oberre	
		swer:	(1 mark
		Mode can be obtained from Histogram.	
[86]	Mos	st of the Commonly used distributions provide a.	
) L = 15 J	(a)	Bell - Shaped	
		U Shaped	
	(c)	J - Shaped Curve	
	(d)	Mixed Curve	4
		Mixed Curve swer:	(1 mark)
	(a)	Most of the commonly used distributions provide a bell-s	
[87]	Wh	nich of the following is suitable for the graphical representa	naped.
	Cui	imulative frequency distribution?	tiion of a
	(a)	Frequency polygon	
	(n)	HISTOGRAM	15
	(0)	O give	
		Pie chart	(1 mark)
		12 ABCL .	
	(c)	'O' give is suitable for the graphical representation of a cur	mulativo
[00]		in quotioy distribution.	nalauve
[88]	5V	weetness of sweet dish is.	
		a) An Attribute	
	(c) (c)	A continuous veriable	
	•	c) A continuous variable d) A variable	
		nswer:	1 mark)
		Sweetness of sweet dish is an Attribute.	
		Attribute.	
202	21 - ,	JULY	(6)
[89]		Means senarating itoms	
	gr	Means separating items according to similar character rouping them into various classes:	eristics
	(a	a) Classification	
) Editing	
		다가는 경우는 사람들은 경우를 하는 것이 없는 것이 없는 것이 되었다. 그는 것은 것은 것은 것은 것이 없는 것이다.	

[Chapter → 13] Statistical Description of Data

3.705

(c) Separation

(d) Tabulation

(1 mark)

Answer:

- (a) Classification means separating items according to similar characteristics grouping them into various classes.
- In graphical representation of data, ideographs are also called as:
 - (a) Picto-graphs
 - (b) Asymmetry graphs
 - (c) Symmetry graphs
 - (d) Pictograms

(1 mark)

Answer:

- (d) In graphical representation of data.

 Ideographs are also called as pictograms.
- [91] A graph that uses vertical bars to represent data is called a:
 - (a) Line graph
 - (b) Scatter plot
 - (c) Vertical graphs
 - (d) Bar graph

(1 mark)

Answer:

- (d) A graph that uses vertical bars to represent data is called a Bar graph.
- In a graphical representation of data, the largest numerical value is 4 the smallest numerical value is 25. If classes desired are 4 then which class interval is:-
 - (a) 45
 - (b) 5
 - (c) 20
 - (d) 7.5

(1 mark)

Answer:

(b) No. of class Interval = $\frac{\text{Largest value - Smallest value}}{\text{Class width}}$ $= \frac{45 - 25}{4} = \frac{20}{4} = 5$

Solved Scanner CA Foundation Paper - 3C

- [93] Frequency density of a class interval is the ratio of _____.
 - (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.
 (1 mark)

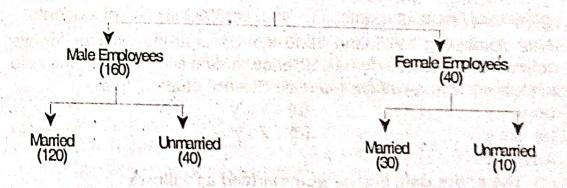
Answer:

- (d) Frequency density of a class interval is the Ratio of frequency of that class interval to the corresponding class length.
- [94] There were 200 employees in an office in which 150 were married. Total male employees were 160 out of which 120 were married. What was the number of female unmarried employees?
 - (a) 30
 - (b) 40
 - (c) 50
 - (d) 10

Answer:

(d)

in the complete state of the complete state



Total Employees = 200

So, No of female unmarried employees = 10

[Chapter → 13] Statistical Description of Data | 3.707

[95] Data collected on religion from the census reports are:

- (a) Primary data
- (b) Unclassified data
- (c) Sample data

(d) Secondary data

(1 mark)

Answer:

(d) Data collected on religion from the census reports are secondary

2021 - DECEMBER

In a study about the male and female students of Commerce and [96] Science departments of a college in 5 years, the following data's were obtained:

> 1995 2000

75% female students 70% female students

40% read Science 65% read Commerce

20% of male students read Science 50% of female students

read Commerce

3000 total No. of students

3600 total No. of students

After combining 1995 and 2000 if x denotes the ratio of female commerce students to female Science student and y denotes the ratio of male commerce student to male Science student, then

(a) x = y

(b) X > V

(c) x < y

(d) X ≥V (1 mark)

Answer:

(c) The entire data can be summarized as follows:

Particulars	1995		2000		
No. of Students		3,000	1 to 100	3,600	
No. of Female Students	$(70\% \times 3,000)$	2,100	(75% × 3,600)	2,700	
No. of Male Students	(30% × 3,000)	900	(25% × 3,600)	900	

Solved Scanner CA Foundation Paper - 3C

		and the second second second	
(65% × 3,000)	1,950	(60% × 3,600)	2,160
(35% _. × 3,000)	1,050	(40% × 3,600)	1,440
(20% × 900)	180	(900 – 810)	90
(80% × 900)	720	(2,160 – 1,350)	810
(1,050 – 180)	870	(50% × 2,700)	1,350
(1,950 – 720)	1,230	(50% × 2,700)	1,350
	3,000) (35% × 3,000) (20% × 900) (80% × 900) (1,050 – 180)	3,000) (35% × 3,000) 1,050 (20% × 900) 180 (80% × 900) 720 (1,050 – 180) 870	3,000) (35% × 3,000) 1,050 (40% × 3,600) (20% × 900) 180 (900 – 810) (80% × 900) 720 (2,160 – 1,350) (1,050 – 180) 870 (50% × 2,700)

Total female commerce students = 1,230 + 1,350 = 2,580

Total female science students = 870 + 1,350 = 2,220

Therefore,
$$x = \frac{2,580}{2,220} = 1.1622$$

Total male commerce students = 720 + 810 = 1,530

Total male science students = 180 + 90 = 270

Therefore,
$$y = \frac{1,530}{270} = 5.6667$$

Clearly, x < y.

- [97] A National Institute arranged its students data in accordance with different states. This arrangement of data is known as
 - (a) Temporal Data

(b) Geographical Data

(c) Ordinal Data

(d) Cardinal Data.

(1 mark)

Answer:

- (b) Data arranged in accordance with states is Geographical data.
- [98] A student marks in five subject S1, S2, S3, S4 and S5 are 86, 79, 90, 88 and 89. If we need to draw a Pie chart to represent these markes, then what will be the Central angle for S3?

(a) 103.2°

(b) 75°

(c) 105.6°

(d) 94.8°

(1 mark)

[Chapter ➡ 13] Statistical Description of Data ■

3.709

Answer:

(b) Total Marks = 86 + 79 + 90 + 88 + 89 = 432Marks in S3 = 90Central Angle = $\frac{90}{432} \times 360 = 75^{\circ}$

[99] Ogive curves cannot be used to determine

(a) Mean

(b) Median

(c) Mode

(d) Range

(1 mark)

Answer:

(b) This question seems to be wrong. The correct question should be "Ogive curves can be used to determine:"

The answer would then be (b) Median.

[100] The following data relate to the marks of a group of students:

Marks	Below 10	Below 20	Below 30	Below 40	Below 50
No. of students	15	38	65	84	100

How many students got marks more than 30?

(a) 65

(b) 50

(c) 35

(d) 43

(1 mark)

Answer:

(c) From the table it is clear that total number of students = 100, and the number of students who got marks below 30 = 65. Therefore, number of students who got marks more than 30 = 100 - 65 = 35.

[101] The following data relate to the marks of 48 students in Statistics:

56	10	54	38	21	43	12	22
48	51	39	26	12	17	36	19
48	.36	15	33	30	62	57	17
5	17	45	46	43	55	57	38
43	28	32	35	54	27	17	16
11	43	45	2	16	46	28	45

Solved Scanner CA Foundation Paper - 3C

What are the frequency densities for the class intervals 30-39, 40-49, 50-59?

(a) 0.20, 0.50, 0.90

(b) 0.70, 0.90, 1.10

(c) 0.1875, 0.1667, 0.2083

(d) 0.90, 1.00, 0.80

(1 mark)

Answer:

(d) Frequency Density = Class Frequency
Class Length

Class Interval		Observations	Frequency	
,60 	30 – 39	38, 39, 36, 36, 33, 30, 38, 32, 35	9	
	40 – 49	43, 48, 48, 45, 46, 43, 43, 43, 45, 46, 45	11	
	50 – 59	56, 54, 51, 57, 55, 57, 54	7	

Therefore, Frequency Density for the Class Interval 30 - 39 = 9 $\div 10 = 0.90$

Frequency Density for the Class Interval $40 - 49 = 11 \div 10 = 1.10$

Frequency Density for the Class Interval $50 - 59 = 7 \div 10 = 0.70$ **Note**, in the ICAI Study Material, option (d) is given as 0.90, 1.10, 0.70, and thus that is the correct answer. However, in the exam, option (d) came as 0.90, 1.00, 0.80, which is not the right answer. As a student, a conservative approach would be to leave this question unmarked to avoid the risk of negative marking.

Note: You cannot mark option (b) because it is not in the proper sequence.

[102] Multiple axis line chart is considered when

- (a) There is more than one time series
- (b) The units of the variables are different.
- (c) In any case.
- (d) If there are more than one time series and unit of variables are different. (1 mark)

Answer:

(d) If there are more than one time series and unit of variables are different then multiple Axis line chart is considered.

2022 - JUNE

		The second second second	100
(a) Mean (c) Mode Answer:	(d)	MD	(1 mark)
(a) Time series data (c) Secondary data Answer:	(b)	Primary data Geographical data	(1 mark)
(a) Attribute (c) Quality Answer:	(d) (d)	Quantity None of these	(1 mark)
(a) Tabular form(c) Graphical formAnswer:(d) Regression Analysis is not Histogram can be drawn from	(b) (d) t a w	Textual form Regression analysis ray of Presenting data?	
(b) Class interval are unequal(c) Frequency of class interval(d) NoneAnswer:	l are	equal	
	(c) Mode Answer: (b) Less than 'o' give curve give that a data collected from a cense (a) Time series data (c) Secondary data Answer: (c) If a data collected from a data. Sweetness is an (a) Attribute (c) Quality Answer: (d) Sweetness is an Attribute Which of the following is not a (a) Tabular form (c) Graphical form Answer: (d) Regression Analysis is not Histogram can be drawn from (a) Class interval are equal (b) Class interval are unequal (c) Frequency of class interval (d) None Answer:	(a) Mean (b) (d) Answer: (b) Less than 'o' give curve gives if a data collected from a census F (a) Time series data (b) (c) Secondary data (c) Secondary data (d) Answer: (c) If a data collected from a census data. Sweetness is an (a) Attribute (b) (c) Quality (d) Answer: (d) Sweetness is an Attribute (quality data) (a) Tabular form (b) (c) Graphical form (c) Graphical form (d) Regression Analysis is not a way distribute and data data data. (d) Regression Analysis is not a way distribute form (a) Class interval are equal (b) Class interval are unequal (c) Frequency of class interval are distribute (d) None Answer:	(a) Mean (b) Median (c) Mode (d) M D Answer: (b) Less than 'o' give curve gives Median. If a data collected from a census Report. What type of data (a) Time series data (b) Primary data (c) Secondary data (d) Geographical data Answer: (c) If a data collected from a census report is known as a data. Sweetness is an (a) Attribute (b) Quantity (c) Quality (d) None of these Answer: (d) Sweetness is an Attribute (quality) Which of the following is not a way of Presenting data? (a) Tabular form (b) Textual form (c) Graphical form (d) Regression analysis Answer: (d) Regression Analysis is not a way of Presenting data? Histogram can be drawn from (a) Class interval are equal (b) Class interval are unequal (c) Frequency of class interval are equal (d) None

3.712

Solved Scanner CA Foundation Paper - 3C

- [108] Which of following does not form characteristics in dividing the data?
 - (a) No. of auditors auditing Accounts.
 - (b) No. of files audited by auditor
 - (c) No of files audited less than 6, less than 5, less than 10
 - (d) Files less than, moderate than, higher than.

(1 mark)

Answer:

- (d) Files less than, moderate than, higher than does not form characteristics in dividing the data.
- [109] If the cumulative frequency are plotted on axis then which type of curve is formed
 - (a) Ogive
 - (b) Frequency curve
 - (c) Histogram
 - (d) Frequency Polygon

(1 mark)

Answer:

- (a) 'O' Give [C.F is used for constructed 'O' Give
- [110] Which one is research data?
 - (a) Discrete and Continious
 - (b) Qualitative and Quantitative
 - (c) Processed and Unprocessed
 - (d) Organise and unorganised data

(1 mark)

Answer:

- (c) Processed and unprocessed data is a research data.
- [111] The profitability of a blue chip company is shown by -
 - (a) bell shape curve
 - (b) U shake curve
 - (c) J shape curve
 - (d) Mixed curve

(1 mark)

Answer:

(a) The profitability of a blue chip company is shown by bell shape.

2022	- DECEMBER
[112]	Which one of the following is a source of primary data? (a) Government Records (b) Research Articles (c) Journals (d) Questionnaire filled by Enumerators (1 mark) Answer: (d) Questionnaire filled by enumerators is a source of primary data.
[113]	Which is the left part of the table providing the description of the rows? (a) Caption (b) Box head (c) Stub (d) Body (1 mark) Answer: (c) Stub is the left part of the table providing the description of the rows.
[114]	The suitable formula for computing the number of class intervals is: (a) 3.322 logN (b) 0.322 logN (c) 1 + 3.322 logN (d) 1 -3.322 logN Answer: (1 mark) (2) Number of class interval (k) = 1 + 3.322 log N When N → Total frequency.
[115]	Ogive for more than type and less than type distributions intersect at: (a) Mean (b) Median (c) Mode (d) Origin (1 mark) Answer: (b) 'O' Give for more than type and less than type distribution