## Statistics MCQ Question Bank

First Paper

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## 1 Basic Concept of Statistics

1.	Who is known as the			(1) D A E: 1
	(a) P.C. Mahalanobis	(b) Kazi Motaher Ho sain	os-(c) Karl Pearson	(d) R.A. Fisher
2.	If $\sum_{i=1}^{20} x_i^2 = 20$ and $\sum_{i=1}^{20}$	$x_i = 30$ , what is the v	value of $\sum_{i=1}^{20} x_i^2 + \sum_{i=1}^{20} x_i +$	- 100?
	(a) 130	(b) 200	(c) 150	(d) 2130
3.	A subset of a popula	tion is called–		
	(a) Constant	(b) Variable	(c) Sample	(d) Scale
4.	How many measurer	nent scales are there	?	
	(a) 2	(b) 3	(c) 4	(d) 5
5.	Which of the following	ng is a continuous va	riable?	
	(a) Number of goals		(b) Natural number	
	(c) Summation of Fibor	nacci series	(d) Success rate	
6.	In which scale of me		egarded as true zero?	
	(a) Nominal scale	(b) Interval scale	(c) Ratio scale	(d) Ordinal scale
7.	Which is a discrete v	variable?		
	(a) Weight	(b) Amount of rainfall	(c) Distance	(d) Grade in a subject
8.	$If x_1 = 2, x_2 = -3, x_3 =$	$=7$ , and $x_4 = 12$ , $\sum_{i=1}^{4} x_i^2$	=?	
	(a) 26	(b) 106	(c) 206	(d) 216
9.	$If x_1 = 2, x_2 = 3, x_3 = 4$			
	(a) 80	(b) 87	(c) 90	(d) 105
10.	Capital and profit be	elong to a variable w	hich is-	
	<ul><li>i. Bivariate</li><li>ii. Quantitative</li><li>iii. Qualitative</li></ul>			
	Which one is correct	?		
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii
11.	Which one falls in th	ne category of interva	al scale?	
	(a) Temperature	(b) Speed	(c) Distance	(d) Film rating
12.	In which scale of me	asurement, zero is re	egarded as true zero?	
	(a) Nominal scale	(b) Interval scale	(c) Ratio scale	(d) Ordinal scale
13.	Which is a discrete v	variable?		
	(a) Weight	(b) Amount of rainfall	(c) Distance	(d) Grade in a subject

14.	Which one is produ			
	(a) $\prod x_i^2$	(b) $(\prod x_i)^2$	(c) $\sum x_i^2 \times \sum x$	(d) $\sum x_i^2$
15.	For which variable,	determining number	of terms is not possib	ole?
	(a) Discrete variable	(b) Continuous variab	le (c) Quantitative varia	ble(d) Qualitative variable
	Answer the next th	ree question based or	n the following inform	ation.
	A farmer collects g $\sum x_i = 7$ and $\sum x_i^2 = 7$		plants in a month and	finds that
16.	What is the value of	of $\sum (x_i + 4)$ ?		
	(a) 23	(b) 47	(c) 22	(d) 11
17.	If $x_1 = 2, x_2 = 3, x_3 =$	$=5, x_4 = 7 \text{ and } y_1 = 3, y_2$	$y_2 = 4, y_3 = 5, y_4 = 8; \sum_{i=2}^{4} x_i$	$x_i y_i = ?$
	(a) 14	(b) 201	(c) $93$	(d) 109
18.	From the following	table, $\sum_{i=1}^{4} x_i y_i = ?$		
X Y	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	(a) 14	(b) 201	(c) 99	(d) 109
19.	What is the value of	of $\sum (x_i - 4)^2$ ?		
	(a) 23	(b) 135	(c) 484	(d) 119
20.	If the square of sur	nmation is subtracted	the sum of square, t	he value is -
	(a) -8	(b) 34	(c) 8	(d) -34
21.	Which one is not a	n example of ratio sca	ale?	
	(a) Room no.	(b) Income	(c) Number of acciden	nts (d) Weight
22.	Which one is discre	ete?		
	(a) Weight		(b) Amount of rainfal	1
	(c) Temperature		(d) No. of member in	a family
23.	Which type of scale	e of measurement are	religion and blood gr	oup?
	(a) Interval	(b) Ratio	(c) Nominal	(d) Ordinal
	2 Collection	, Organization,	and Presentation	on of Data
24.	How many sources	of data are there?		
	(a) 5	(b) 4	(c) 3	(d) 2
25.	What is the raw m	aterial of research?		
	(a) Data	(b) Theory	(c) Graph	(d) Mean
26.	Data obtained thro	ough direct observatio	n is called–	
	(a) Primary data	(b) Secondary data	(c) Original Data	(d) Informal data

27.	Who invented Stem	and Leaf plot?					
	(a) Karl Pearson	(b) R.A. Fisher	(c) David Cox	(d) John Tukey			
28.	Which rule is sugges	sted by H.G. Sturges	for determining numb	er of class (k)?			
	(a) $K = 1 + 3.322 log N$	(b) $K = 1 + 3.222 log N$	(c) $K = 1 - 3.222 log N$	(d) $K = 1 + 2.332 log N$			
29.	To show runs per ov	ver in a cricket match	, which diagram can b	e used?			
	(a) Histogram	(b) Bar Diagram	(c) Ogive	(d) Frequency polygon			
	3 Measures of						
	3.1 General Que	estions					
30.	If a value is zero, wl	hich measure is not us	sable?				
	(a) Arithmetic Mean	(b) Harmonic Mean	(c) Geometrtic Mean	(d) Mode			
31.	How many measure	of central tendency a	re there?				
	(a) 2	(b) 3	(c) 4	(d) 5			
32.	Which measure of c	ariable?					
	(a) Arithmetic Mean	(b) Harmonic Mean	(c) Quadratic Mean	(d) Mode			
33.	In presence of negat	ive values, which mea	asure is not usable?				
	(a) Arithmetic Mean	(b) Geometric Mean	(c) Quadratic Mean	(d) Harmonic Mean			
34.	34. Inappropriate for algebraic analysis—						
	<ul><li>i. Median</li><li>ii. Mode</li><li>iii. Geometric Mean</li></ul>						
	Which one is true?						
	(a) i	(b) ii	(c) i & ii	(d) ii & iii			
	Answer the next two	o questions based on	the following informat	ion			
		Accident Frequency	4     6     7     8     9       2     0     4     4     1				
35.	Fifth Decile is –						
	(a) 0	(b) 8	(c) 7	(d) 6			
36.	Which of the following	ing is mode?					
	(a) 4	(b) 8	(c) 0	(d) 7			
37.	Which measure give	es a value from within	the values?				
	(a) Arithmetic Mean	(b) Geometric Mean	(c) Median	(d) Mode			
38.	Which one is not a p (a) 2nd Quartile	proper measure of cer (b) Third Decile	ntral tendency? (c) 3rd Quintile	(d) 110th Percentile			

39.	Which one is smalles			
	(a) $\sum_{i=1}^{n} (X_i - Median)^2$	(b) $\sum_{i=1}^{n} (X_i - \bar{X})^2$	$(c) \sum_{i=1}^{n} (X_i - \sigma)^2$	$(d) \sum_{i=1}^{n} (X_i - Mode)^2$
40.	Which measure is no	ot used in determining	skewness?	
	(a) Arithmetic Mean	(b) Geometric Mean	(c) Median	(d) Mode
41.	When is the relation	ship $AM = HM = GM$	true?	
	<ul><li>(a) All values are equal</li><li>(c) The values form an</li></ul>	arithmetic progression	<ul><li>(b) The values form a g</li><li>(d) All values are distinted</li></ul>	
42.	In the presence of ou	utlier(s), which measu	re of central tendency	is suitable?
	(a) Arithmetic mean	(b) Median	(c) Quadratic mean	(d) Power mean
43.	If a rate is defined as	$\mathbf{s} \ R = \frac{c}{d}, \ \mathbf{where} \ \mathbf{c} \ \mathbf{is} \ \mathbf{con}$	nstant, then which me	easure is perfect?
	(a) Weighted arithmetic		(b) Harmonic mean	
	(c) Quadratic mean		(d) Weighted geometric	mean
44.	Which measure migh	nt have more than one	e value?	
	(a) Arithmetic mean	(b) Geometric mean	(c) Quadratic mean	(d) Mode
45.	Which relationship is	s correct?		
	(a) $AM \times GM = HM^2$	(b) $AM \times HM = GM^2$	(c) $AM \times HM = GM^3$	(d) $AM \div GM = HM^2$
46.	With negative observ	vations, which cannot	be used	
	<ul><li>i. Arithmetic Mean</li><li>ii. Geometric Mean</li><li>iii. Harmonic Mean</li></ul>			
	Which one is correct	?		
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii
	3.2 Arithmetic I	Mean		
47.	Arithmetic Mean of	first 25 natural numb	ers is –	
	(a) 12	(b) 13	(c) 14	(d) 26
48.	Arithmetic Mean of	two numbers is 25. If	a number is 40, what	is the other number?
	(a) 40	(b) 50	(c) 25	(d) 10
49.		in two classes are 50 ar M of the first class is 7		ned arithmetic mean (AM) the other class?
	(a) 88.36	(b) 88.40	(c) 84.55	(d) 78.33
50.	The summation of de	eviation of each value	from their arithmetic	e mean is –
	(a) 0	(b) 1	(c) 2	(d) 4
51.	For grouped data, w	hich formula is correc	t for Arithmetic Mean	n?
	(a) $\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$	(b) $\bar{x} = \frac{\sum x_i}{N}$	(c) $\bar{x} = \frac{\sum f_i x_i}{n}$	(d) $\bar{x} = \frac{\sum f_i}{N}$

52.	Arithmetic mean	of the serie	s 2, 12	2, 22,	·, 92 is	_				
	(a) 45	(b) 46	6 (c) 47					(d) 55		
53.	3. What is the arithmetic mean of first n odd natural numbers?									
	(a) $\frac{n+1}{n}$ (b) n				(c) $n+1$	=		(d) $\frac{n+1}{2}$		
54.	What is the arith	nmetic mean	of firs	st n eve	n natu	ral nun	nbers?			
	(a) $\frac{n+1}{2}$	(b) $n + 1$	1		(c) $n$			(d) $\frac{n-1}{2}$		
55.	The arithmetic n	nean of first	n natı	ıral nuı	nbers-					
	(a) $\frac{n}{2}$	(b) $\frac{n+1}{2}$			(c) $\frac{n^2}{2}$			(d) $\frac{n^2-1}{2}$		
56.	Arithmetic mean the combined me		roups	having	equal r	o. of i	tems ar	re 30, 32, and 34. What	is	
	(a) 30.33	(b) 32.67	7		(c) 32.0	00		(d) 33.00		
	3.3 Geometri	c Mean								
57.	Which data set is	s suitable fo	r Geor	netric I	Mean?					
	(a) $1, -1, 2, 4, 6, 7$	(b) $1, -1, 2, 4, 6, 7$ (b) $1, 2, 4, 8, 16, 32$ (c) $0, 1, 2, 3, 4, 6$						(d) 1, 1, 2, 3, 4, 4, 5		
	3.4 Mode									
58.	Which of the foll	owing may	be used	d to de	termine	mode	?			
	(a) Histogram	(b) Freq	uency (	Curve	(c) Ogi	ve		(d) Frequency Polygon		
	3.5 Median									
59.	Median can be d	etermined f	rom th	e-						
	(a) Histogram	(b) Freq	uency c	urve	(c) Ogi	ve		(d) Pie Chart		
	Answer the next	two (2) que	stions	based o	on the f	followin	ng infor	mation		
	_	Class	$\leq 20$	20-25	25-50	50-60	69-70	$\geq 70$		
	_	Frequency	5	10	10	7	5	3		
		Cumulative Frequency	5	15	25	32	37	40		
60.	How many values	s are betwee	en 20 a	nd 70?						
	(a) 20	(b) 32			(c) 35			(d) 37		
61.	Which one is the	median cla	ss?							
	(a) 20-25 (b) 25-50 (c) 50-60 (d) 60-70						(d) 60-70			

## 3.6 Partition Values

	Answer the next two questions as per the following information. 42 44 59 64 70 72 74 91 94 are 9 values.							
32.	What is the 50th pe	ercentile?						
	(a) 64	(b) 70	(c) 72	(d) 71				
33.	Below which value l	ie 70 percent values?						
	(a) 42	(b) 44	(c) 59	(d) 74				
64.	Above which value	lie 30% observations?						
	(a) 3rd Quartile	(b) Median	(c) 30th Percentile	(d) 70th percentile				
	4 Measures o	of Dispersion						
35.	Which of the follow	ing is the best measur	e of dispersion?					
	(a) Range	_	(b) Mean deviation					
	(c) Standard deviation		(d) Coefficient of variat	ion				
66.	What is the minimu	ım possible value of st	andard deviation?					
	(a) $\infty$	(b) -1	(c) 0	(d) 1				
67.	For two values, rang deviation	e is found to be 8. Wh	at are the values of me	ean deviation and standard				
	(a) (2,4)	(b) (4,4)	(c) (4,8)	(d) (8,8)				
38.	What is the standar	rd deviation of first 10	natural numbers?					
	(a) 2.87	(b) 3.02	(c) 0	(d) 2.78				
39.	Which measure is u	nit-free?						
	(a) Range		(b) Mean deviation					
	(c) Standard deviation		(d) Coefficient of variat	ion				
	5 Moments, Skewness, and Kurtosis							
	5.1 Moments							
70.	Which quantity unio	quely characterizes a o	distribution?					
	(a) Median	(b) Quantile	(c) Moments	(d) Trend				
	Which one is correc	t?						
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii				
71.	Which can be used	to measure dispersion	?					
	(a) $\mu'_2$	(b) $\mu_1$	(c) $\mu_2$	(d) $\mu'_1$				
72.	The formula of coef	ficient of variance (CV	7) <b>i</b> s –					
	(a) $\frac{\mu_2}{n} \times 100$	(b) $\frac{\mu_2}{\mu_1} \times 100$	(c) $\frac{\mu_2}{\bar{x}} \times 100$	(d) $\frac{\mu_3}{\sigma} \times 100$				

73.	First moment around zero is –					
	(a) 0	(b) 1	(c) -1	(d) Arithmetic Mean		
74.	Which might have a	negative value?				
	(a) $\mu_4$	(b) $\mu_3$	(c) $\mu'_2$	(d) $\mu_2$		
75.	2nd Central Moment	; <b>i</b> s –				
	(a) $\mu_2 - \mu_1'$	(b) $\mu_2 + \mu_1'$	(c) $\mu_2 - \mu_1^{\prime 2}$	(d) $\mu_2' - \mu_1'^2$		
76.	First central moment	t is equal to –				
	(a) 1	(b) 0	(c) -1	(d) $\bar{x} - a$		
77.	First moment around	d a is equal to –				
	(a) 1	(b) 0	(c) -1	(d) $\bar{x} - a$		
78.	The first raw momen	at about 3 is -5. What	is the value of arithm	netic mean?		
	(a) 2	(b) -2	(c) 0	(d) 8		
79.	Moments can be-					
<ul><li>i. positive</li><li>ii. not negative</li><li>iii. positive or negative</li></ul>						
	Which one is correct	?				
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii		
	5.2 Skewness					
80.	Characteristics of a s	skewed distributon are	e –			
	i. $Mean \neq Median \neq M$ ii. Differences of upper iii. Frequency curve is a	and lower quartiles from	median are unequal			
81.	In a distribution, $\mu_2$	$=25, \mu_3=20, \text{ and } \mu_4=$	2200; the distribution	is -		
	(a) Negativelky skewed	(b) leptokurtic	(c) Platykurtic	(d) Symmetric		
82.	For a data, $Q_3 = 41.6$ ,	$Q_1 = 17.2, Median = 29$	0, &AM = 30; What is	Coefficient of skewness?		
	(a) 24.4	(b) 1	(c) 0.03	(d) 29.45		
83.	In case of positive sk	ewness, which one is	correct?			
	(a) $Mean > Median >$	Mode	(b) $Mean < Median <$	Mode		
	(c) $Mean = Median =$	Mode	(d) $Mean > Median <$	Mode		
84.	For a symmetrical di	$\textbf{stribution,} \ \beta_1 =$				
	(a) 1	(b) -1	(c) 0	(d) 3		
85.	$\sqrt{\beta_1} = -0.23$ implies-					
	(a) Left Skew	(b) Symmetry	(c) Right Skew	(d) Mesokurtic		
86.	First 3 moments abo	out 2 are 1, 2 and 8, re	espectively. What is t	he arithmetic mena?		
	(a) 1	(b) 2	(c) 3	(d) 4		

87.	What is the second	central moments of fi	rst 10 natural number	rs?
	(a) 9.90	(b) 9.09	(c) 8.25	(d) 5.67
88.	Frequencies of highe	er values are smaller i	${f n}-{f distribution}$	
	(a) Positively skewed	(b) Negatively skewed	(c) Symmetric	(d) Mesokurtic
	5.3 Kurtosis			
89.	How many types of	kurtosis are there?		
	(a) 2	(b) 3	(c) 4	(d) 5
90.	The standard deviate central moment?	tion of a mesokurtik	distribution is 2. Wh	nat is the value of the 4th
	(a) 4	(b) 8	(c) 16	(d) 48
91.	$\beta_2 = \sqrt{9}$ implies data	are-		
	(a) Leptokurtic	(b) Platykurtic	(c) Mesokurtic	(d) Symmetric
92.	For a mesokurtik dis	stribution, $\beta_2 =$		
	(a) 0	(b) -3	(c) 3	(d) 1
	5.4 Misc			
93.	Which is not used in	constructing Box &	Whisker Plot?	
	(a) Mode	(b) $X_L$	(c) $Q_1 \& Q_3$	(d) $Q_1, Q_2 \& Q_3$
94.	In a symmatric distr	ribution–		
	i. Arithmetic Mean = I ii. $Q_2 - Q_1 = Q_3 - Q_2$ iii. $Q_1 - X_L = X_H - Q_0$ Which one is true?			
	(a) i & ii	(b) ii & iii	(c) i &iii	(d) i, ii &iii
95.	Which is not include	ed in five number sum	nmary?	
	(a) Arithmetic Mean	(b) $X_H$	(c) $Q_2$	(d) $Q_3$
	6 Correlation	and Regressio	n	
	7 Time Serie	$\mathbf{S}$		
96.	Time Series has how	many components?		
	(a) 2	(b) 3	(c) 4	(d) 5
97.	Which component in	nvolves period more t	han one (01) year?	
	(a) Seasonal Variation	(b) Cyclic Variation	(c) Irregular Variation	(d) Random Variation
98.	Which one is not a	component of Time Se	eries	
	(a) Seasonal Variation	(b) Cyclic Variation	(c) General Trend	(d) Regular Variation

99. A company is cons	stantly getting	greater	reven	ue tha	n prev	ious	year; this is-
(a) Seasonal Variation	n (b) General	Trend	(c) ]	Irregula	r Variat	tion	(d) Cyclic Variation
100. Which is not a m	ethod of findi	ng gener	al trei	nd?			
(a) Graphical Method	, ,		` '	Semi-Av	0		(d) Moving Median
Answer the next t	wo questions l	pased on	the fo	ollowin	g table	e:	
	Year 2007		2009	2010	2011	2012	_
	Sales 5	35	34	40	42	204	
101. In Semi-Average	method, what	is the 2	nd av	erage?			
(a) 74	(b) 24.67		(c) !	95.33			(d) 28
102. What is the last	value of 3-year	ly movi	ng ave	rage?			
(a) 93.55	(b) 95.53		(c) !	95.33			(d) 59.33
103. Which componen	t of time serie	s is affec	cted by	y econo	omic cl	hange	es due to war?
(a) Trend	(b) Seasonal	Variation	n (c)	Irregula	r Variat	tion	(d) Cyclic Variation
104. Demand for warm of time series deals			nter se	eason a	ns less	in su	mmer. Which component
(a) Trend	(b) Seasonal	Variation	n (c) ]	Irregula	r Variat	tion	(d) Cyclic Variation
105. Death rates of a	country for 7 y	years are	e giver	below	/ <b>:</b>		
-	Year         2009         2           Rate         5	2010   201 7   6		12   20			015 3
In semi-average m	ethod, which y	vear will	be ex	cluded	1?		
(a) 2012	(b) 2013	year wiii		2015	••		(d) 2009
106. Which componen	t of time serie	s repres	ents a	natura	al disas	ster?	
(a) Seasonal Variation		_					(d) Cyclic Variation
107. How many model	s of time serie	s are th	ere to	combi	ne the	comp	ponents?
(a) 2	(b) 3		(c)	4			(d) 5
8 Published Statistics in Bangladesh  108. Limitations of published statistics in Bangladesh are —  i. Wrong data collection method							
ii. Insufficient data iii. Lack of proper tra							
Which one is corre							
(a) i and ii	(b) i and iii		(c) i	i and ii	i		(d) i, ii and iii
109. How many source	es of published	l statisti	cs are	there	in Ban	glade	esh?
(a) 2	(b) 3		(c) 4	4			(d) 6

110. Bangladesh Bureau of Statistics collect –							
(a) Official statistics	(b) Non-official statistics	(b) Non-official statistics (c) Semi-official statistics (d) None of the above					
111. Which statistics are published by an NGO?							
(a) Official statistics	(b) Non-official statistics(c) Semi-official statistics(d) None of the above						
112. The primary source	of official statistics in	Bangladesh is –					
(a) WHO	(b) BBS	(c) CPD	(d) UNDP				
113. In Bangladesh, a census is usually done every – years							
(a) 20	(b) 15	(c) 10	(d) 12				

## Answer Key:

,									
1. (d) R.A. Fisher	30.	(c)	Geometric Mean	58.	(a)	Histogram	87.	(c)	8.25
2. (c) 150	31.	(d)	5	59.	(c)	Ogive	88.	(a)	Positively skewed
3. (c) Sample	32.	(d)	Mode	60.	(b)	32	89.	(b)	3
4. (c) 4	33.	(b)	Geometric Mean	61.	(b)	25-50	90.	(d)	48
5. (d) Success rate	34.	(c)	i & ii	62.	(b)	70	91.	(c)	Mesokurtic
6. (c) Ratio scale	35.	(c)	7	63.	(d)	74	92.	` '	
7. (d) Grade in a subject	36.	(b)	8	64.	(d)	70th percentile		` /	Mode
8. (c) 206	37.	(d)	Mode	65.	(c)	${\bf Standard\ deviation}$		` /	
9. (c) 90	38.	(d)	110th Percentile	66.	(c)	0		` '	i, ii &iii
10. (a) i and ii	39.	(a)	$\sum_{i=1}^{n} (X_i - Median)^2$	67.	(a)	(2,4)	95.	(a)	Arithmetic Mean
11. (a) Temperature		` '	i=1	68.	(a)	2.87	96.	(c)	4
12. (c) Ratio scale			Geometric Mean	69.	(d)	Coefficient of variat	97 ion	(b)	Cyclic Variation
13. (d) Grade in a subject	41.	(a)	All values are equal	70.	(c)	Moments	98.	(d)	Regular Variation
14. (a) $\prod x_i^2$	42.	(b)	Median				99.	(b)	General Trend
15. (b) Continuous variable	43. e	(b)	Harmonic mean	71.	(c)	$\mu_2$	100	. (d	) Moving Median
16. (b) 47		, ,	Mode	72.	(c)	$\frac{\mu_2}{\bar{x}} \times 100$	101	. (c	) 95.33
17. (c) 93			$AM \times HM = GM^2$	2 73.	(d)	Arithmetic Mean	102	. (c	) 95.33
18. (c) 99	46.	(c)	ii and iii	74.	(b)			`	) Irregular Variation
19. (d) 119		(b)		75.	(d)	$\mu_2'-\mu_1'^2$		,	, -
20. (d) -34		(d)		76.				,	b) Seasonal Variation
21. (a) Room no.		, ,	88.36	77.	(d)	$\bar{x} - a$		`	) 2013
22. (d) No. of member in a	a far	(a) nily		78.	(b)	-2	106	. (c	) Irregular Variation
23. (c) Nominal	51.	(a)	$\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$	79.	(b)	i and iii	107	. (a	.) 2
24. (d) 2		(c)		81.	(b)	leptokurtic	108	. (d	l) i, ii and iii
25. (a) Data		(b)			, ,		109	. (b	) 3
26. (a) Primary data		` /	n+1		. ,	Mean > Median >	110 M	$de^{(a)}$	) Official statistics
. ,			$\frac{n+1}{2}$	84.					) Semi-official statistics
28. (a) $K = 1 + 3.322 log N$			-				112	. (b	b) BBS
29. (b) Bar Diagram		` '	1, 2, 4, 8, 16, 32	86.			113	. (c	) 10
. ,		(-)	, , , -, -,	-	(-)		_	( "	,