## 1189/BS1

## OCTOBER 2010

## BASIC BIOSTATISTICS

Time: Three hours Maximum: 100 marks

SECTION A  $-(20 \times 1 = 20 \text{ marks})$ 

Answer ALL questions.

Choose the correct answer:

- 1. Health statistics was introduced by
  - (a) Karl Pearson
- (b) John Graunt

(c) Fischer

- (d) Robert
- 2. A small representative fraction of a population is called as ———
  - (a) Unit

(b) Variable

(c) Sample

- (d) Data
- 3. Primary data are
  - (a) Always reliable
  - (b) Less reliable
  - (c) Depends on the care with which data have been collected
  - (d) Not reliable

- 4. \_\_\_\_\_ is the middle value of a class
  - (a) Median

- (b) Mean
- (c) Class interval
- (d) Class limit
- 5. Histogram is a
  - (a) Diagram
- (b) Circle

(c) Graph

- (d) Line
- 6. What is Ogive?
  - (a) Frequency table
  - (b) Frequency polygon
  - (c) Cumulative frequency curve
  - (d) Bar chart
- 7. In component bar diagram largest component is mentioned at the
  - (a) Top

(b) Bottom

(c) Middle

- (d) Top and Bottom
- 8. What is caption?
  - (a) Headings of vertical columns
  - (b) Headings of horizontal columns
  - (c) Title of a table
  - (d) Sources of information

	e arranged chronologically is called
(a)	Continuous series
(b)	Discontinuous series
(c)	Time series
(d)	Long series
MCCOMPANIES NO.	
	OPERATOR AND CONTRACTOR OF THE PROPERTY OF THE
(a)	secular trend
	secular trend cyclic trend
(b)	cyclic trend
(b) (c) (d)	cyclic trend periodic trend
(b) (c) (d)	cyclic trend periodic trend seasonal trend
(b) (c) (d) Whi	cyclic trend periodic trend seasonal trend ch of the following is a position average?  Mode (b) Harmonic mean
(b) (c) (d) Whice (a)	cyclic trend periodic trend seasonal trend ch of the following is a position average?  Mode (b) Harmonic mean
(b) (c) (d) Whice (a)	cyclic trend periodic trend seasonal trend ch of the following is a position average? Mode (b) Harmonic mean Geometric mean (d) Median

13.	Half of the difference between third quartile a	and
	first quartile is called as —	

- mean deviation (a)
- (b) inter quartile deviation
- semi quartile deviation (c)
- (d) quartile deviation

(a) average

(b) mean

(c) mode

(d) median

(a) 
$$\frac{L-S}{L+S}$$
 (b)  $\frac{L+S}{L-S}$   
(c)  $(L-S)\times(L+S)$  (d)  $\frac{(L-S)(L+S)}{2}$ 

- Square root of standard deviation
- (b) Square of standard deviation
- (c) Square root of mean deviation
- Square of mean deviation (d)

7.	Rank	correlation coefficient was developed by	22	2. (a	a)	Write differences between histogram and bar chart.	
	(a)	Bowley (b) Spearman				Or	
	(c)	Fischer (d) Blair		(k	0)	What is pie diagram?	
8.		oretically the values of coefficient of elation shall always between ———————————————————————————————————	23	3. (8	a)	Mention any two diagrams used in Time comparison.	
	(a)	+1  and  -1 (b) $+2  and  -2$				Or	
	(c)	+3  and  -3 (d) $+5  and  -5$		(1	b)	Differentiate between mean and median.	
9.	The	term regression was first introduced by	2	4. (	a)	Calculate the 25th percentile for the given data.	
	(a)	Kelly (b) Fischer			umption in Milligrams: 15-25 25-35 35-45 45-55		
	(c)	Galton (d) Bayer		Protein consumption in Milligrams: 55-65 65-75 75-85			
20.		th the regression coefficients are negative, the elation wound be	N	umbei	r of c	hildren: - 30 10 Or	
	(a)	Negative (b) Positive		,	1. \	laisting for the given	
	(c)	Neutral (d) Zero		(	b)	data.	
		SECTION B — $(5 \times 6 = 30 \text{ marks})$				7, 4, 10, 9, 15, 12, 7, 9, 7.	
A	nswei	r ALL questions by choosing either 'a' or 'b'.					
21.	(a)	What is the scope of statistics in medical field?	2	5. (	a)	Write the various types of correlation. Or	
	15.4	Or	W. X.	(	(b)	Mention the importance of regression	
	(b)	What are the advantages of frequency distribution table?				analysis.	
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