

الإثنين 1436 / 1 / 10 هـ الساعة 12 – 1

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رقم الطالبة :  
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أستاذة المقرر :

For each question, write the letter in the space given in the following table

Question	1	2	3	4	5	6	7	8	9	10
Answer										

Question	11	12	13	14	15	16	17	18	19	20
Answer										

Question	21	22	23	24	25
Answer					

Good Luck

### **Question 1:**

Consider the following frequency table of serum cholesterol levels of 100 subjects in a certain hospital:

Row	Cholesterols Levels	Frequency	Relative Frequency	Cumulative Frequency	Cumulative Relative Frequency
1	50-74	3			
2	75-99	--		13	
3		15			
4	125-149	21			
5	150-174		0.3		
6	175-199	12			
7	200-224	7			
8	225-249	2			

Answer the following questions:

1- The type of the variable is

(A) Qualitative nominal

**(B)** Quantitative continuous

(C) Quantitative discrete

(D) Qualitative ordinal

2- The 3<sup>rd</sup> class interval is

(A) 99-124

**(B)** 100-124

(C) 100-125

(D) None of these

3- The 5<sup>th</sup> frequency is

**(A)** 30

(B) 32

(C) 29

(D) 10

4- The 2<sup>nd</sup> relative frequency is

(A) 0.12

(B) 10

**(C)** 0.1

(D) 0.3

5- The 6<sup>th</sup> cumulative frequency is

(A) 90

(B) 0.12

**(C)** 91

(D) 0.91

6- The 4<sup>th</sup> cumulative relative frequency is

**(A)** 0.49

(B) 0.21

(C) 49

(D) 21

7- The class width is

(A) 20

**(B)** 25

(C) 10

(D) 1

### **Question 2:**

If the numbers of drugs of 10 diabetes patients take are 1, 4, 5, 2, 5, 8, 8, 3, 4, 5;  
find:

8- The sample mean is

- (A) 4.8                      **(B) 4.5**                      (C) 4                      (D) 5

9- The sample median is

- (A) 2                      (B) 5                      (C) 4                      **(D) 4.5**

10- The sample mode is

- (A) 4                      (B) 8                      **(C) 5**                      (D) 4, 5

11- The sample standard deviation is

- (A) 2.273**                      (B) 2.319                      (C) 2.282                      (D) 2.332

### **Question 3:**

By using the SPSS results of the number of calls per day for a sample of Saudi  
women

Statistics

12- The type of the variable is

number of calls

- (A) Qualitative    (B) Continuous  
**(C) Discrete**        (D) Statistic

13- The variance is

- (A) 3.484**                      (B) 1.866  
(C) 20                      (D) None of these

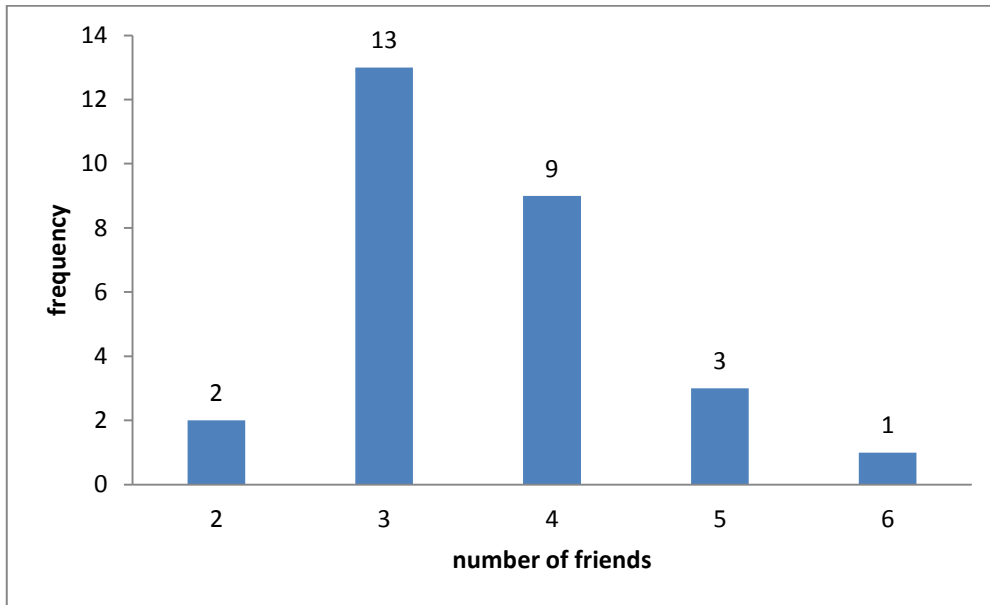
14- The coefficient of variation is

- (A) 18.59%                      (B) 94.17%  
**(C) 50.45%**                      (D) none of these

N	Valid	20
	Missing	0
Percentiles	Mean	3.7000
	Median	3.0000
	Mode	3.00
	Std. Deviation	1.86660
	Range	7.00
	25	2.0000
	50	3.0000
	75	5.0000

### **Question 4:**

For a sample of children, we measure the number of their friends and we obtain the following graph, then



15- The type of the graph is

- (A) Polygon      (B) Histogram      **(C) Bar chart**      (D) Curve

16- The variable name is

- (A) Children      **(B) Number of friends**      (C) Bar chart      (D) None of these

17- The sample size is

- (A) 20      **(B) 28**      (C) 13      (D) 30

18- The number of children have 3 friends

- (A) 24      **(B) 13**      (C) 5      (D) 9

19- The number of children have more than 4 friends

- (A) 24      (B) 13      (C) 26      **(D) 4**

20- The percentage of children have three friends or less is

- (A) 85.71%      **(B) 53.57%**      (C) 92.86%      (D) 7.14%

21- The relative frequency of children have from 3 to 5 friends inclusive

- (A) 0.8929**      (B) 0.1071      (C) 0.3214      (D) 0.1429

22- The mode is

- (A) 6      (B) 4      **(C) 3**      (D) 13

### **Question 5:**

23- The economical level is an example of

- (A) Nominal variable                      **(B)** Ordinal variable  
(C) Continuous variable                  (D) Quantitative variable

24- The measure that can be found for qualitative and quantitative variables is

- (A) Mean                  (B) Variance                  **(C)** Mode                  (D) Range

25- Not affected by extreme values are

- (A) Mean and Median                      **(B)** Median and Mode  
(C) Mean and Mode                      (D) None of these.

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End of the Questions