Introduction





Question 1:

1. Which of the following is an example of a statistic:

A)	the population	B)	the sample	<i>C</i>)	the population	D)	the population
	variance		<u>median</u>		mean		mode

2. Which of the following are examples of measures of dispersion:

A)	the median and	<i>B</i>)	the range and	<i>C</i>)	the parameter	D)	the mean and
	the mode		<u>the variance</u>		and the statistic		the variance

3. The number of students admitted in College of Medicine in King Saud University is a variable of type

(A) <u>Discrete</u> (B) Qualitative	(C) Continuous	(D) nominal
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4. A mean of a population is called

	(\mathbf{D}) statistic	(C) Modian	(D) Mada
(A) <u>Parameter</u>	(\mathbf{D}) statistic	(C) Mealan	(D) Mode

- 5. The measure that obtained from the population is called
 - (A) <u>parameter</u> (B) sample (C) population (D) statistic
- 6. The measure that obtained from the sample is called
 - (A) parameter (B) sample (C) population (D) <u>statistic</u>

7. A sample is defined as:

- *A) The entire population of values.*
- *B*) *A measure of reliability of the population.*
- <u>C</u> A subset of data selected from a population.
- D) Inferential statistics.

Question 2:

From men with age more than 20 years living in Qaseem, we select 200 men. It was found that the average weight of the men was 76 kg.

1) The variable of interest is:

(A) Age (B) weight (C) 200 men (D) 76 h	kg
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2) The sample size is:

(A) 76	(B) 20	(C) 200	(D) 1520

Question 3 :

A study of 250 patients admitted to a hospital during the past year revealed that, on the average (mean), the patients lived 15 miles from the hospital.

1.	The sample in the s	study is		
	(A) <u>250 patients</u>	(B) 250 hospitals	(C) 250 houses	(D) 15 miles

2. The population in this study is

(A) Some	(B) <u>all patients</u>	(C) 250 patients	(D) 500 patients
patients	admitted to	admitted to	admitted to
admitted to	<u>the hospital</u>	the hospital	the hospital
the hospital	<u>during the</u>	during the	during the
during the	<u>past year</u>	past year	past year
past year			

3. The variable of interest is of type

(A) <u>continuous</u>	(B) discrete	(C) nominal	(D)Qualitative ordinal
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ية Measures of central tendency	مقابيس النز عة المركز
$\sum^{n} \mathbf{v}$	Mean
$\bar{X} = \frac{\Delta i = 1 \wedge i}{2}$	
n	المتوسط
	Median
	الوسيط
كثر تكرار في المجموعة . وقد لا يوجد لبعضها منوال وقد يوجد	نأخذ الأ Mode
أكثر من منوال	المنوال
Measures of	مقادسيا التشتاب
dispersions	معاييش الشلك
1	
المدي = اكان قدمة - احتفد قدمة	Range
المدى = اكبر قيمة ـ اصغر قيمة	Range المدي
المدى = اكبر قيمة ـ اصغر قيمة $S^2 = \frac{\sum_{i=1}^{n} (X_i - \bar{X})^2}{n-1}$	Range المدي
المدى = اكبر قيمة - اصغر قيمة $S^2 = \frac{\sum_{i=1}^{n} (X_i - \bar{X})^2}{n-1}$	Range المدى Variance
المدى = اكبر قيمة - اصغر قيمة $S^2 = \frac{\sum_{i=1}^{n} (X_i - \bar{X})^2}{n-1}$ $S^2 = \frac{\sum_{i=1}^{n} X_i^2 - n\bar{X}^2}{n-1}$	Range المدى Variance
المدى = اكبر قيمة ـ اصغر قيمة $S^2 = \frac{\sum_{i=1}^{n} (X_i - \bar{X})^2}{n-1}$ $S^2 = \frac{\sum_{i=1}^{n} X_i^2 - n\bar{X}^2}{n-1}$	Range المدى Variance التباين
المدى = اكبر قيمة - اصغر قيمة $S^2 = \frac{\sum_{i=1}^{n} (X_i - \bar{X})^2}{n-1}$ $S^2 = \frac{\sum_{i=1}^{n} X_i^2 - n\bar{X}^2}{n-1}$ $S = \sqrt{S^2}$	Range المدى Variance التباين Standard deviation
المدى = اكبر قيمة - اصغر قيمة $S^2 = \frac{\sum_{i=1}^{n} (X_i - \bar{X})^2}{n-1}$ $S^2 = \frac{\sum_{i=1}^{n} X_i^2 - n\bar{X}^2}{n-1}$ $S = \sqrt{S^2}$	Range المدى Variance التباين Standard deviation الإنحر اف المعياري
المدى = اكبر قيمة - اصغر قيمة $S^{2} = \frac{\sum_{i=1}^{n} (X_{i} - \bar{X})^{2}}{n-1}$ $S^{2} = \frac{\sum_{i=1}^{n} X_{i}^{2} - n\bar{X}^{2}}{n-1}$ $S = \sqrt{S^{2}}$ $CV = \frac{S}{N} - \frac{N}{N}$	Range المدى Variance التباين Standard deviation الإنحراف المعياري C.V

Measures of Central tendency and Dispersion

Question 1:

If the number of visits to the clinic made by 8 pregnant women in their pregnancy period is:

12 15 16 12 15 16 12 14

1. The type of the variable is:

A)	continuous	B)	ordinal	<i>C</i>)	nominal	D)	<u>discrete</u>
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2. The sample mean is:



3. The sample standard deviation is:

S	$S^{2} = \frac{\sum_{i=1}^{n} (X_{i} - \bar{X})^{2}}{n-1} = \frac{(12 - 14)^{2} + (15 - 14)^{2} + (16 - 14)^{2} + \dots + (14 - 14)^{2}}{8-1} = 3.14 \Longrightarrow S = 1.77$							
<i>A</i>)	4.012	<i>B</i>)	-2.450	<i>C</i>)	<u>1.77</u>	D)	2.524	

4. The sample median is:

		12 12	12 14 15 15	16	$16 \Longrightarrow \frac{14+15}{2} =$	14.5	
A)	<u>14.5</u>	<i>B</i>)	15.5	<i>C</i>)	16.5	D)	15

5. The coefficient of variation is:

			$C.V = \frac{s}{\overline{X}} =$	$\frac{1.77}{14} =$	0.1266		
A)	70 %	B)	2.5 %	<i>C</i>)	28.25 %	D)	<u>12.66 %</u>

6. The range is:

A)	11	B)	<u>4</u>	<i>C</i>)	6	D)	28
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Question 2:

Consider the following marks for a sample of students carried out on 10 quizzes:

- 6, 7, 6, 8, 5, 7, 6, 9, 10, 6
- Q. 1. The mean mark is:

$$\overline{X} = \frac{6+7+6+8+5+7+6+9+10+6}{10} = 7$$
A) 7 B) 10 C) 6 D) 7.5

Q. 2. The median mark is:

- Q. 3. The mode for this data is:
 - A) 7 B) $\underline{6}$ C) 0 D) 6 or 7
- Q. 4. The range for this data is:

 A) 15
 B) 10
 C) 5
 D) 0
- Q. 5. The standard deviation for this data is:

 $S^{2} = \frac{\sum_{i=1}^{n} (X_{i} - \bar{X})^{2}}{n-1} = \frac{(5-7)^{2} + (6-7)^{2} + \dots + (10-7)^{2}}{10-1} = 2.434 \implies S = 1.56$ A) 1.48 B) 2.44 C) 1 D) <u>1.56</u>

Q. 6. The coefficient of variation for this data is:

C.V =
$$\frac{s}{\overline{X}} = \frac{1.56}{7} = 0.223$$

A) 44.9% *B)* 22.3% *C)* 19% *D)* 47.3%

Question 3:

The data for measurements of the left ischia tuberosity (in mm Hg) for the SCI and control groups are shown below.

Control	131	115	124	131	122
SCI	60	150	130	180	163

1. The mean for the control group is

	$\overline{X} = \frac{131 + 115 + 11}{3}$	24+131+12 5	$\frac{12}{2} = 124.60$		
(A)125.10	(B)128.10	(<i>C</i>)	<u>124.60</u>	<i>(D)</i>	127.10

2. The variance of the SCI group is

		$\overline{X} = \frac{60+150+13}{5}$	$\frac{0+180+163}{5} = 136.6$	
	$S^2 = \frac{\sum_{i=1}^n (x_i)}{n}$	$\frac{(60-136.6)^2}{-1} = \frac{(60-136.6)^2 + (60-136.6)^2}{-1}$	$\frac{150-136.6)^2+\dots+(163-136}{5-1}$	$\frac{(.6)^2}{$
(A) 2025	5.10	(B) <u>2167.8</u>	(C) 2026.10	(D)2037.10

3. The unit of coefficient of variation for SCI group is

(A) mm Hg	(B) Hg	(<i>C</i>) <i>mm</i>	(D) <u>Unit-less</u>

4. Which group has more variation

$S^2 = \frac{\sum_{i=1}^n (X_i)}{n-1}$	$\frac{(1-\bar{X})^2}{1} = \frac{(131-1246)}{1}$	$\frac{5)^2 + (115 - 124.6)^2 + \dots + (12 - 124.6)^2}{5 - 1}$	$= 45.3 \Longrightarrow 6.7305$
	$C.V_{Control} = -$	$\frac{S_{Control}}{\overline{X}_{Control}} = \frac{6.7305}{124.6} = 0.054$	
	$C.V_{SCI} = \frac{s_S}{\overline{X}}$	$\frac{GCI}{SCI} = \frac{\sqrt{2167.8}}{136.6} = 0.3408$	
(A) Control	(B) <u>SCI</u>	(C) Both groups have	(D) Cannot compare
group	<u>group</u>	the same variation	between their variations

Question 4:

Temperature (in Faraheniet) recorded at 2 am in London on 8 days randomly chosen in a year were as follows:

40 -21 38 -9 26 -21 -49 44

1) The average temperature for the sample is:

(A) 248	(B) 1	(<i>C</i>) <u>6</u>	(D) 48

2) The median temperature for the sample is:

	(A) 17	(B) -21	(C) <u>8.5</u>	(D) -8.5
\ T	1 1	·····		

3) The mode of temperature for the sample is:

(A) -21 $(B) 44$ $(C) 2$ $(D) -49$

4) The standard deviation for the sample data is:

5) The coefficient of variation for the sample is:

	(A) 49%	(B) 17%	(C) 4%	(D) <u>588.7%</u>
6) <i>Th</i>	e range of the s	sample is:		

$\left(\begin{array}{c} (A) \\ T \end{array}\right) = \left(\begin{array}{c} (B) \\ D \end{array}\right) = \left(\begin{array}{c} (B) \\ T \end{array}\right) = \left(\begin{array}{c} $	(A) 4	(B) 8	(C) 40	(D) <u>93</u>
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Question 5:

Some families were selected and the number of children in each family were considered as follows: 5, 8, 0, 8, 3, 7, 8, 9

Then,

1) The sample size is:

(A) 9 (B) 6 (C) 8 (D) 5	(A) 9	(B) 6	$(C) \underline{8}$	(D) 5	
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2) The sample mode is:

(A) 9 (B) 0 (C) 8 (D) Na	o mode
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3) The sample mean is:

	(A) 48	(B) <u>6</u>	(<i>C</i>) 8	(D) 0
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4) The sample variance is:

$(1) \xrightarrow{1} (2) \xrightarrow{1} ($

5) The sample median is:

$(A) 5.5 (B) \underline{7.5} (C) 8 (D) 7$
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6) The range of data is:

(A) 8	(B) 0	(<i>C</i>) 3	(D) <u>9</u>

7) The sample coefficient of variation is:

	(A) 5.5	(B) 8	(C) <u>0.52</u>	(D) 7
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Question 6:

Consider the following weights for a sample of 6 babies: 5, 3, 5, 2, 5, 4

[1]	The s	ample mean	ı is					
	A	<u>4</u>	B	5	C	3	D	6

- [2] The sample median is С 4.5 5 D3 A 4 B
- [3] The sample mode is 3 C5 4.5 4 B D A
- [4] The sample standard deviation is 3.2649 8.2649 <u>1.2649</u> 2.2649 CDA B
- [5] The coefficient of variation for this sample is 40.00% 200% D 12.50% 31.62% B A C

Question 7:

1. Which of the following measures is not affected by the extreme values?

(A) <u>Median</u>	(B) Mean	(C) Variance	(D)Range

2. Which of the following location (central tendency) measures is affected

by extreme values?

(A) Range	(B) <u>Mean</u>	(C) Median	(D)Mode

3. Which of the following measures can be used for the blood type in a given sample?

(A)Median	(B)Mean	(C)	Variance	(D)	Mode
(11)111000000	(2)112000	(0)	, сл тепте е	(2)	110000

Question 8:

1.	The biggest a	advantage of the standard deviation over the variance is:							
	(A)	The standard deviation is always greater than the variance.							
	<i>(B)</i>	The standard deviation is calculated with the median instead of the							
		mean.							
	(<i>C</i>)	The standard deviation is better for describing the qualitative data.							
	<u>(D)</u>	The standard deviation has the same units as the original data.							
2.	Parameters a	and statistics:							
	(A)	Describe the same group of individuals.							
	<u>(</u> B)	Describe the population and the sample, respectively.							
	(\overline{C})	Describe the sample and the population, respectively.							
	(D)	(D) None of these.							
3.	<i>3.</i> Which of the following location (central tendency) measures is affected by								
	extreme va	lues?							
	(A)	Median							
	<u>(B)</u>	Mean							
	(<i>C</i>)	Variance							
-	(D)	Range							
4.	Which of the	e following measures can be used for the blood type in a given sample?							
	<u>(A)</u>	Mode							
	<i>(B)</i>	Mean							
	(<i>C</i>)	Variance							
	(D)	Range							
5.	If x_1, x_2 and	dx_3 has mean $\bar{x} = 4$, then x_1, x_2, x_3 and $x_4 = 4$ has mean:							
	(A) <u>ec</u>	<u>qual 4</u> (B) less than 4 (C) greater than 4 (D) None of this							

Question 9:

- 1. The sample mean is a measure of
 - A) Relative position.
 - *B)* <u>Central tendency.</u>
 - C) Dispersion.
 - D) all of the above.
- 2. The sample standard deviation is a measure of
 - A) Relative position.
 - B) Central tendency.
 - C) Dispersion.
 - D) all of the above.

Question 10:

The "life" of 40 similar car batteries recorded to the nearest tenth of a year. The batteries are guaranteed to last 3 years.

Class Interval	True class Interval	Midpoint	Frequency	Relative Frequency
1.5–1.9	1.45–1.95	1.72	2	0.050
2.0–2.4	1.95–2.45	2.2	D	0.025
2.5–2.9	2.45–2.95	С	4	F
Α	2.95–3.45	3.2	15	0.375
3.5–3.9	В	3.7	Ε	0.250
4.0–4.4	3.95-4.45	4.2	5	0.125
4.5–4.9	4.45-4.95	4.7	3	0.075

1. The value of A:

A)	2.45–2.95	<i>B</i>)	3.5–4.9	<i>C</i>)	<u>3.0–3.4</u>	D)	3.55–3.95
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2. The value of B:

A)	40.5 - 50.5	B)	<u>3.45–3.95</u>	<i>C</i>)	54 - 64	D)	44.5 - 54.5	
3.	The value of C	C: C =	$\frac{2.45+2.95}{2} = 2.7$					
A)	<u>2.7</u>	B)	28.5	<i>C</i>)	29	D)	59	
4.	The value of L	D: $\frac{D}{40} =$	$0.025 \Longrightarrow D = 40 \times$	0.025	= 1			
<i>A</i>)	2	B)	4	<i>C</i>)	3	D)	<u>1</u>	
5. The value of $E: \begin{bmatrix} \frac{E}{40} = 0.25 \implies E = 40 \times 0.25 = 10 \end{bmatrix}$								
<i>A</i>)	0	B)	<u>10</u>	<i>C</i>)	12	D)	11	
6.	The value of F	F =	$\frac{4}{40} = 0.10$					
<i>A)</i>	<u>0.10</u>	B)	0.15	<i>C</i>)	0.35	D)	0.25	

Question 11:

F III IN THE TADIE given below. Answer the following questic
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Class		Cumulative	Relative	Cumulative Relative				
Interval	Frequency	Frequency	Frequency	Frequency				
5 - 9	8							
10 - 14	15		С					
15 – 19	11	В		D				
20 - 24	A	40	0.15					
1) The value of A is: $A = 40 - (8 + 15 + 11) = 40 - 34 = 6$ (A) $\underline{6}$ (B) 4 (C) 34 (D) 40 2) The value of B is: $B = 9 + 45 + 44 - 24$								
2) The value	of B is: $B = 8$	3 + 15 + 11 = 3	34					
(A) 40	(B) <u>34</u>	(C) 0.8	85 (D) 0.	275				
3) The value of C is: $C = \frac{15}{40} = 0.375$ (A) 23 (B) 0.575 (C) 0.275 (D) <u>0.375</u>								
4) The value $(A) O$	of D is: $D = \frac{3}{4}$	$\frac{34}{40} = 0.85$	<u>۵ (م) ۵</u>	85				
(A) 0.3	D) 54	$(\mathbf{C}) 0.$	$(D) \underline{0}.$	05				
5) The true of	class interval fo	or the first class	is:					

(A) 5 - 9	(B) 5 - 10	(<i>C</i>) <u>4.5 – 9.5</u>	(D) 5.5 – 9.5

6) The number of observations less than 19.5 is:

	8 + 1	5 + 11 = 34	
(A) <u>34</u>	(B) 85	(C) 1	(D) 6

Question 12:

The following table gives the age distribution for the number of deaths in New York State due to accidents for residents age 25 and older.

Age (Years)	Number of Deaths	Cumulative Frequency	True Class Interval	Relative Frequency	Cumulative Relative Frequency	Mid- Point
25 – 34	393	393	24.5 – 34.5	0.1188	0.1188	29.5
35 - 44	514	907	34.5 – 44.5	0.1554	0.2742	39.5
45 - 54	В	1367		0.1104	0.3882	49.5
55 - 64	341	1708	54.5 – 64.5	0.1031	0.4913	59.5
65 – 74	A	2073	64.5 – 74.5	0.1391	С	69.5
75 - 84	616	2689		0.1863	0.8167	79.5
85 - 94	618	3307		0.1869	1.0000	89.5
Total						

1. The value of A is

(A) <u>365</u>	(B) 341	(C) 514	(D)616
้า	The walks of D is		

2.	The	value	of	В	ĺS		•••	•••	•••	•••	•••
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$(A) \frac{460}{100}$ (B) 441 (C) 414 (D) 406	

3.	The true	class	interval	of the	highest	frequency	is
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(A) 74.5 – 84.5	(B)	44.5	- 54.5	(C) (64.5 – 74.5	(1	D) <u>84.5 – 94.5</u>
	71	1	<u> </u>	1.	\ 7	/	

4. The value of the gap (jump) between (non-true) class

intervals is

(A) No gaps	(B) 0.5	(C) 0	(D) <u>1</u>
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5. The true class interval that has the lowest relative

frequency is

(A) 25 – 34	(<i>B</i>) 45 – 54	(<i>C</i>) 55 – 64	(D) <u>54.5 – 64.5</u>
6	5. The value of C is	5	
(A) 0.6101	(B) 0.6130	(C) <u>0.6304</u>	(D)0.6011

Question 13:

<i>The table shows the</i>	weight	loss (kg) of a	sample	of 40	healthy	adults	who
fasted in Ramadan.								

Class interval	Frequency	Cumulative Frequency
1.20 - 1.29	2	2
1.30 - 1.39	6	8
1.40 - 1.49	10	K
1.50 - 1.59	С	34
1.60 - 1.69	6	40

1) The value of the missing value K is

(a) 0 (b) 18 (c) 2 (d) 10 (e) None is correct

2) The value of the missing value C is (a) 20 (b) 40 (c) 10 (d) 16 (e) None is correct

Question 14:

Consider the following frequency polygon of ages of 20 students in a certain school.



The frequency distribution of ages corresponding to above polygon is

<u>(a)</u>					
True class limits	4.5-6.5	6.5-8.5	8.5-10.5	10.5 -12.5	
frequency	2	5	8	5	
(<i>b</i>)					
True class limits	3.5-5.5	5.5-7.5	7.5-9.5	9.5 -11.5	11.5-13.5
frequency	2	5	8	4	1
(<i>c</i>)					
Class interval	5-6	7-8	9-10	11 -12	
frequency	1	7	8	4	
(d)					
Class interval	5-6	7-8	9-10	11 -12	
frequency	4	7	8	6	

Question 15:

The following table gives the distribution of the ages of a sample of 50 patients who attend a dental clinic.

Age intervals (in years)	Frequency	Relative frequency	Less than	Cumulative Frequency
10 - 15	4	-	10	0
16 - 21	8	-	16	4
22 - <i>2</i> 7	Ζ.	0.32	22	у
28 - 33	-	-	28	
34 - 39	10	-	34	
			40	x

1. The class width is:											
	(A)	<u>6</u>	<i>(B)</i>	10	(<i>C</i>)	150	<i>(D)</i>	19			
2. The value of x is:											
	(A)	22	(B)	28	(<i>C</i>)	<u>50</u>	<i>(D)</i>	10			
<i>3. The va</i>	lue of	y is:									
	(A)	4	(B)	<u>12</u>	(<i>C</i>)	19	(D)	150			
4. The va	lue of	z is:									
	(A)	14	(B)	12	(<i>C</i>)	50	(D)	<u>16</u>			
5. Percen	t of th	e patients wit	h age	between 16 a	nd 21	is:					
	(A)	<u>16%</u>	(B)	8%	(<i>C</i>)	20%	<i>(D)</i>	32%			
6. <i>The</i> 5 th	6. The 5 th interval midpoint is:										
	(A)	38	(B)	52	(<i>C</i>)	27	(D)	<u>36.5</u>			

Question 16:

Consider the following Table showing a frequency distribution of weights in a sample of 20 cans of fruits:

Class	True	Midpoi	Frequency	Relative	Cumulative
interval	Class	nt		Frequency	Frequency
	Limits				
19.2 – 19.4			1		
19.5 – 19.7				0.10	
19.8 - 20.0			8		
			4		

1. The fifth class interval is:

A) 20.2 - 20.4 B) 20.1-20.3 C) 21.0 - 21.2 D) <u>20.4 - 20.6</u>

- 2. The second true class interval is
 A) <u>19.45 19.75</u> B) 19.5 19.7 C) 19.25 19.35 D) 20.2 20.4
- 3. The midpoint of the fourth class interval is:

 A) 20.5
 B) 20.2
 C) 19.9
 D) 20.1
- 4. The frequency of the second class interval is: A) 10B) 4C) 2D) 3
- 5. The relative frequency of the fourth class interval is:
 A) 0.20
 B) 0.15
 C) 0.13
 D) 0.40
- 6. The cumulative frequency of the final class interval is:A) 13B) 4C) 20D) 100

Question 17:

Consider the following table showing a frequency distribution of blood test of 52 diabetes patients.

	1								
	Class internal	Eroque			ıtive	Relative		Cumulative	
	Class interval	I'requel	псу	freque	ncy	frequency		rei	lative frequency
	101 – 120					0.4423			
	121 – 140							D	
	В			С		0.2115			
	161 - 180					0.0577			
	Total	Α				1			
[1]	The value of A is								
[•]	A 1	B		3	C	.52	D)	80
		2			U	<u></u>	2		
[2]	The class interva	l B is							
[-]	A 122-140	B	16	1-180	C	131-140	D)	141-160
[3]	The value of C is								
	A 49	B		15	C	34	D)	52
[4]	The value of D is								
	A 0.5308	В	0.	7308	C	0.4308	D)	0.8308
[5]	The true class in	tervals are							
	100-120		99.5 -	119.5		100.5 - 120.5			100.5 - 120.5
	120.5 –139	.5	120.5	-140.5	~	120.5 -140.5			121.5 – 140.5
	A 141 -160		140.5	-159.5	<u>C</u>	140.5 - 160.5			141.5 -160.5
	161 - 180		160.5	-179 5		160.5 - 180.5			161 5 - 180 5
	101 100		100.2	177.5		100.2 100.2			101.5 100.5
[6]	The midpoint of	the first cla	uss inte	rval is					
[0]	A 1105	R	<i>iss inte</i>	20	C	220)	19
	<u>110.5</u>			20	v	220			17
[7]	Histogram of the	frequency	distrik	oution is bu	uilt b	ased on			
L · J			Midne	oints and					
	Erequency	and	cumu	lativa					
	I requency			unve		True class			
	A cumulative	B	relati	ve	C	interval and		D	None of them
	relative		freque	ency		frequency			
	frequency		-	-		J			