جامعة الملك سعود الاختبار الفصلي الأول

كلية العلوم الفصل الدراسى الأول1438 /1439

قسم الإحصاء وبحوث العمليات مقرر 106 احص

الخميس 6 / 2 / 1439 هـ الساعة :12-1

اسم الطالبة : -----------------------------------------------------------------------------------

رقم الطالبة : -----------------------------------------------------------------------------------

رقم الشعبة : ----------------------------- رقم التسلسل : ---------------------------------------

أستاذة المقرر : ---------------------------------------------------------------------------------

تعليمات

1-نقل جميع الاجابات الى ورقه التصحيح الالكتروني

2-التأكد من عدد الصفحات 4 صفحات و 25 سؤال

*Best Wishes*

Answer the following questions

**Question 1:**

**[A]For the sample of mothers at delivery ,we measure the quantity of sugar**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Frequency** | | **Quantity of sugar** | | |
| 15 | | 80 – 89 | | |
| 25 | | 90 – 99 | | |
| 10 | | 100 – 109 | | |
| ………….. | | 110 –119 | | |
| 20 | | ……… | | |
| 80 | | Total |

1. **The variable is**
2. Mothers at delivery (B) Numbers of mothers.

(C)Quantity of sugar (D) Time with doctor.

1. **Type of variable is**
2. ordinal (B) discrete (C) continuous (D) nominal
3. **The number of mothers with quantity of sugar from 110 to 119 is:**

(A) 20 (B) 15 (C) 0 (D) 10

1. **The last interval is**

(A) 119-129 (B) 120-129 (C) 120-130 (D) 119-120

1. **The relative frequency of mothers with quantity of sugar from 80 to 109 is:**
2. 62.5% (B) 0.625 (C) 50 (D) 0.5
3. **The best graph for this data is:**

(A) bar chart (B) histogram (C) a and b (D) none of these

1. **The width of the interval is:**
2. 5 (B) 1 ( C) 9 (D) 10

**[B]We measured the numbers of hours spend in exercising each week for a sample of 9 persons as follows**

3 2 4 5 5 2 1 5 2

1. **The sample mode is**

(A)3 (B) 2 (C) 2 and 5 (D) 3.2

1. **The sample range is**

(A)1 (B) 3 (C)5 (D) 4

1. **The sample median is**

(A)2 (B) 3 (C)5 (D) 4

1. **The sample mean is**

(A)3.2 (B) 3 (C) 2 and 5 (D) 2

**Question2:**

**[A]The following graph represents the number of eating sweets for a sample of children**

1. **The variable is:**

|  |  |  |  |
| --- | --- | --- | --- |
| A) number of children  D ) children eating sweets. | B) eating habit | C) number of sweets |  |

1. **The mode is:**

|  |  |  |  |
| --- | --- | --- | --- |
| A) 4 | B) 11 | C) 7 | D) 6 |

1. **The number of children who ate the least number of sweets:**

|  |  |  |  |
| --- | --- | --- | --- |
| A) 3 | B) 5 | C) 4 | D) 6 |

1. **The percentage of the children who ate at most 5 sweets**

|  |  |  |  |
| --- | --- | --- | --- |
| A) 71.4% | B) 28.6% | C) 45.7% | D) 54.3% |

1. **The frequency for the children who ate 8 sweets:**

|  |  |  |  |
| --- | --- | --- | --- |
| A) 35 | B) 0 | C) 7 | D) 6 |

**[B]The following table gives the results of a survey to study the weights and high of students**

|  |  |  |
| --- | --- | --- |
| Standard deviation | Mean |  |
| 3 | 60 | weights |
| 8.3 | 166 | High |

1. **Weights has:**
2. More variation (**B**) Less variation

(C)The same variation of high (D) we cannot decide

**Quistion3:**

1. **Which one of the following is an example of parameter**

(A) median of age for all patients (**B**) mood of marks for 100 students from KSU. (C) mean of weights of sample of children (D) all these

1. **The discrete variable is a**
2. Variable with a specific number of values
3. Variable which can't be measured
4. Variable takes on values within intervals
5. Qualitative variable
6. **The ordinal variable is :**
7. Variable with a specific number of values.
8. Variable takes on values within interval.
9. Qualitative variable that can be ordered.
10. Variable that has more than mode.
11. **One of the following is affected by extreme values:**
12. Median (B) Mean (C) Mode

1. **One of the following is take into account all values of the sample:**

(A)Variance (B) Range (C) Median (D) Mode

1. **For any given quantitative data, we can have no**

(A) Mean (B) variance (C) mode (D) median

1. **For the following data : red , green , black , green , red , green.**

**Then the best measure of central tendency is**

(A) Mean (B) variance (C) mode (D) median

1. **Which of the following is an example of ordinal variable:**

(A)Age (B) hair color (C) number of books (D) level of education