المملكة العربية السعودية

جامعة الملك سعود

كلية الدراسات التطبيقية و خدمة المجتمع

الاختبار الفصلي الاول

الفصل الدراسي الثاني لعام 1434 – 1435 هـ

الاحصاء و الاحتمالات (1201 احص )

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**15**

رقم الطالبة:

رقم التسلسل:

**Question 1:**

We measure the excess in weight (in kilogram ) for a sample of pregnant women :

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Classes | Frequency | Midpoint | True classes | Relative frequency | Cumulative frequency |  |  |
| 4 – 6 | 12 |  |  |  |  |  |  |
| 7 – 9 | 15 |  |  |  |  |  |  |
| 10 – 12 | 11 |  |  |  |  |  |  |
| 13 – 15 | 8 |  |  |  |  |  |  |
| 16 – 18 | 4 |  |  |  |  |  |  |
| Total | 50 |  |  |  |  |  |  |

Complete the table and choose the correct answer :

[1] 3rd true class is : (a) 3 - 5 (b) 3.5 – 6.5 (c) 9.5 – 12.5 (d) 10 – 12.5

[2] 4th midpoint is : (a) 5 (b) 8 (c) 11 (d) 14

[3] 2nd cumulative frequency: (a) 12 (b) 15 (c) 27 (d) 50

[4] 5th relative frequency: (a) 0.24 (b) 0.08 (c) 0.22 (d) 1

[5] the mean is : (a) 96 (b) 9.62 (c) 50 (d) 72

[6] the variance is : (a) 14.036 (b) 98.65 (c) 3.75 (d) 9.93

[7] the number of women had excess in weight of 10 or more :

(a) 23 (b) 50 (c) 27 (d)15

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**Question 2:**

We measure the number of flights of stairs a person can walk up without becoming very tired :

8 , 2 , 3 , 6 , 5 , 4 , 3 , 7 , 1 , 1 , 3 , 2 , 5 , 4

[1] The type of the variable is : (a) qualitative (b) continuous (c) discrete (d) normal

[2] The sample mean is : (a) 4 (b) 3.5 (c) 54 (d) 3.86

[3] The sample median is : (a) 4 (b) 3 (c) 3.5 (d) 7.5

[4] The sample mode is : (a) 4 (b) 3 (c) 3.5 (d) no mode

[5] The sample standard deviation: (a) 268 (b) 2.14 (c) 4.59 (d) 20.62

[6] The range is: (a) 1 (b) 4 (c) 7 (d) 8

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**Question 3:**

The following table gives the results of a survey to study the ages and hemoglobin level of patients of a certain clinic .

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean | Standard Deviation | C.V |
| Age (years) | 30 | 6 |  |
| Hemoglobin level (g/dl) | 60 | 10 |  |

Which variable with less variation ?

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