The Open university of Sri Lanka

Department of Mathematics & Computer Science

Certificate in Laboratory Technology Programme 2014/2015

Basic Mathematics & Computer Skills-PSC1123

Home Assignment

**Date of Submission: 24/10/2014**

**Answer All the Questions**

**(1)**Rebecca records the shoe size x of the female students in her year. The results are as follows.

|  |  |
| --- | --- |
| **x** | **Number of students** |
| 35 | 03 |
| 36 | 17 |
| 37 | 26 |
| 38 | 32 |
| 39 | 12 |

i) Represent this information in Pie Chart.

ii) The Pie Chart given below shows how 36 invitees at a party had their Meals

strings

rice& curry

pizza noodles

bread hoppers

Calculate the number of people who had each type of Meal.

(iii) The noise levels at 30 locations near an outdoor concert venue were measured to the nearest decibel. The data collected is shown in the grouped frequency table.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Noise(decibles) | 65-69 | 70-74 | 75-79 | 80-84 | 85-89 | 90-94 | 95-99 |
| Frequency(f) | 1 | 4 | 6 | 6 | 8 | 4 | 1 |

Draw a histogram, frequency polygon and cumulative frequency curve.

**(2)**

The speeds of vehicles passing a check point were measured over a period of one hour to the nearest kmph. The data collected is shown in the group frequency table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Speed level(kmph) | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 |
| No. of vehicles(f) | 4 | 7 | 38 | 42 | 8 | 4 |

Find

(i) Mean, Median,and Mode of the distribution.

(ii) Standard Deviation and Coefficient of Skewness

**(3)** Integrate following functions

(i) (ii) (iii)

**Please post your answers to this assignment for the following address.**

Coordinator – PSC 1123

Certificate in Laboratory Technology Programme

Department of Mathematics & Computer Science

Faculty of Natural Sciences

The Open University of Sri Lanka

Nawala

Nugegoda

State your **Name** and **Address** on your answer sheet