The Open university of Sri Lanka

Department of Mathematics & Computer Science

Certificate in Laboratory Technology Programme 2015/2016

Basic Mathematics & Computer Skills-PSC1123

Home Assignment

**Date of Submission: 23/10/2015**

**Answer All the Questions**

**(1)** The table summariesthe marks obtained by the students for a combined mathematics test in grade 13 of a certain school.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Marks range | 0 - 20 | 20 - 40 | 40 - 60 | 60 - 80 | 80 - 100 |
| No of students | 6 | 5 | 12 | 4 | 3 |

1. Draw a pie chart of the above distribution
2. Draw a histogram of the above distribution
3. Draw a frequency polygon of the above distribution
4. Draw a cumulative frequency curve of the above distribution

**(2)** Details of the marks obtained by the students in a school at an exam are as follows

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marks range | 0 - 10 | 10 - 20 | 20 - 30 | 30 – 40  | 40 – 50 | 50 - 60 | 60 - 70 | 70 – 80 | 80- 90 | 90 - 100 |
| No of students | 4 | 2 | 10 | 50 | 19 | 10 | 2 | 1 | 1 | 1 |

i) Find

a) mode of the distribution

b) median of the distribution

c) mean of the distribution

d) standard deviation of the distribution

e) coefficient of skewness

f) explain the shape of the distribution

**(3)** Integrate the following functions

 (i)  (ii)  (iii) 

**Please post your answers for this assignment to 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,** **Address** and **Registration number** on your answer sheet