Section: Time: 20 minutes Marks: 20 Quiz-1

Name: ID:

1. Identify the scale of measurement on which the following underlined variables are measured.

|  |  |  |
| --- | --- | --- |
| a. | Color of a car entering in the parking lot. |  |
| b. | Socio economic status of a citizen |  |
| c. | Printing mistakes per page of a book. |  |

2. Comment on the skewness for the given data set. 10

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Marks | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | Total |
| No. of students | 3 | 6 | 10 | 4 | 2 | 25 |

3. Show, by an example . 7

Section: Time: 20 minutes Marks: 20 Quiz-1

Name: ID:

1. What are the differences between histogram and bar diagram. 2

2. Draw a frequency curve of the given data of marks of students: 4

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Marks | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | Total |
| No. of students | 3 | 6 | 10 | 4 | 2 | 25 |

3. The data given below are the e-mails received by an organization: 7  *x*: 13, 09, 06, 20, 04, 29, 15.

Calculate geometric mean.

4. Calculate Mode of the given data of people by blood pressure: 7

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Class interval of blood pressure | 70-80 | 80-90 | 90-100 | 100-110 | 110-120 | Total |
| No. of patients | 5 | 17 | 24 | 13 | 6 | 65 |

Section: Time: 20 minutes Marks: 20 Quiz-1

Name: ID:

1. Which diagrams are appropriate to represent the given data set? Draw one of them of the following data set: 7

|  |  |
| --- | --- |
| University | No. of students |
| AIUB | 320 |
| NSU | 300 |
| UIU | 375 |
| IUB | 200 |
| East West | 250 |

2. Calculate the average of the given data set of speed of bicycle. 6 *x:* 12, 17, 25, 21, 34, 20, 29.

3. Calculate median of the given data of people by blood pressure: 7

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Class interval of blood pressure | 70-80 | 80-90 | 90-100 | 100-110 | 110-120 | Total |
| No. of patients | 5 | 17 | 24 | 13 | 6 | 65 |

Section: Time: 20 minutes Marks: 20 Quiz-1

Name: ID:

1. Calculate median and mode of the given data: 5

*x*: 15, 11, 13, 10, 07, 18, 11, 20

2. A photocopier machine is used to make photo copy for first 100 pages at a speed 30 pages/minute, second 100 pages at speed 28 pages/minute and third 100 pages at a speed 20 pages/minute. Find the average speed of photocopier machine.

5

1. The frequency distribution is given of the quiz marks of statistics of students: 10

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Class interval | 0-4 | 4-8 | 8-12 | 12-16 | 16-20 | Total |
| Frequency | 5 | 8 | 15 | 18 | 4 | 50 |

a) How many students are there who obtained less than 16 marks?

b) Find the percentage of no. of students who obtained above and 4 marks?

c) Draw a histogram.