**ASSIGNMENT (2020-21)**

**CLASS - X SUBJECT – MATHEMATICS**

**CH – 14 (STATISTICS)**

1. Construction of a cumulative frequency table is useful determining the

Mean mode medien all of the above

1. The abscissa of the point of interaction of the ‘less than type’ and of the ‘more than type’ cumulative frequency curve of grouped data gives

        Mode   Median mean  all of the above

1. What should be the modal class

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Classes | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
| Frequencies | 5 | 6 | 13 | 38 | 30 | 4 |

10-20 30-40 40-50 50-60

1. What should come in the blank? Mode= (…………..) –2 (mean)

3 (median) 4 (median) 2 (median) 5 (median)

1. Find the missing frequencies when the mean of data is 53.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Age (in years) | 0-20 | 20-40 | 40-60 | 60-80 | 80-100 | Total |
| Number of people | 15 | X | 21 | y | 17 | 100 |

1. Draw the cumulative frequency curve by more than method from the following data:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Income | 0 – 1000 | 1000 – 2000 | 2000 – 3000 | 3000 – 4000 | 4000 – 5000 | 5000 - 6000 |
| Number of persons | 7 | 15 | 35 | 28 | 10 | 5 |

1. Find the mean, median and the mode of the following frequency distribution.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Class | 1. 10 | 10 - 20 | 20 – 30 | 30 – 40 | 40 - 50 | 50 - 60 | 60 - 70 |
| Frequency | 4 | 5 | 7 | 10 | 12 | 8 | 4 |

1. Find value of ‘q’ when mean is 47. 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Class | 0 – 20 | 20 – 40 | 40 – 60 | 60 – 80 | 80 – 100 |
| Frequency | 8 | 15 | 20 | q | 5 |

1. The percentage of marks obtained by 100 students in an examination are given below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Marks | 30 – 35 | 35 – 40 | 40 – 45 | 45 – 50 | 50 – 55 | 55 – 60 | 60 – 65 |
| Frequency | 14 | 16 | 18 | 23 | 18 | 8 | 3 |

1. Draw a ‘less than ogive’ for the following data:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Class | 1 - 4 | 4 – 7 | 7 – 10 | 10 – 13 | 13 – 16 | 16 – 19 |
| Frequency | 6 | 30 | 40 | 16 | 4 | 4 |