**ST. ALOYSIUS COLLEGE, EDATHUA, ALAPPUZHA**

**INTERNAL EXAMINATION 202O (B.COM. F&T DEGREE) (CBCS)**

**CORE COURSE –CO3CRT08 – QUANTITATIVE TECHNIQUSES FOR BUSINESS –I**

**MAX. MARKS: 40 TIME :1½ HRS.**

**PART – A**

Answer any **Five** questions

Each question carries 2 marks

1. What is analytical statistics?
2. What is an interview schedule?
3. What is Chronological classification?
4. What is a statistical unit?
5. What is snowball sampling?
6. The mean height of 20 male workers in a factory is 170 cm and the mean height of 30 female workers in the same factory is 150 cm. find the combined mean height of 50 workers in the factory.
7. What is meant by law of statistical regularity?
8. Define geometric mean (5 x 2 = 10)

**PART –B**

Answer any four questions

Each question carries 5 marks

1. ‘Statistics are like clay of which one can make God or devil as one likes’ Comment.
2. Calculate Arithmetic Mean from the following data;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Class Intervals  | Below20  | 20-30 | 30-40 | 40-50 | 50-60 | 60- 70  | Above 70  |
| Frequency  | 6 | 10 | 24 | 28 | 14 | 5 | 3 |

1. Distinguish between census method and sampling method of data collection.
2. Calculate median from the following series

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marks(More than) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| No. of students  | 240 | 215 | 200 | 180 | 165 | 145 | 115 | 50 | 0 |

1. Mention the mathematical properties of arithmetic mean.
2. From the following data calculate Quartiles, D4 and P60

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marks  | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
| No. of Students  | 13 | 17 | 50 | 60 | 55 | 45 | 23 | 7 |

( 5 x 4 = 20)

**PART – C**

Answer any one question

Itquestion carries 10 marks

1. Calculate Mode from the following;

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marks (Above) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| No. of students  | 122 | 118 | 112 | 92 | 60 | 27 | 10 | 2 | 0 |

1. Calculate the median from the following. If 60% of students pass the test, find the minimum marks obtained by the pass candidate.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Marks  | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 |
| No. of students  | 10 | 20 | 10 | 7 | 2 | 1 |

 (1 x10 = 10)