

Roll No. ....

**Y – 2837**

**B.B.A. (Second Semester) EXAMINATION, May/June 2021**

**Paper–203**

**BUSINESS STATISTICS**

*Time : Three Hours*

*Maximum Marks : 40*

*Minimum Pass Marks : 16*

**Note**—Attempt *all* questions.

**Unit-I**

1. “Statistics is not a science, it is a scientific method.” Discuss it critically and explain the scope and limitations of statistics. 8

**Unit-II**

2. Calculate Harmonic Mean— 8
- |                 |   |      |       |       |       |       |
|-----------------|---|------|-------|-------|-------|-------|
| Marks           | : | 0–10 | 10–20 | 20–30 | 30–40 | 40–50 |
| No. of Students | : | 4    | 5     | 11    | 6     | 4     |

**Unit-III**

3. Calculate standard deviation and coefficient of variation from the following data— 8
- |                 |   |    |    |    |    |    |    |
|-----------------|---|----|----|----|----|----|----|
| Value more than | : | 70 | 60 | 50 | 40 | 30 | 20 |
| Frequency       | : | 7  | 18 | 40 | 40 | 63 | 65 |

**Unit-IV**

4. “Index numbers are economic barometers.” Explain this statement and mention what precautions should be taken in making use of published index numbers. 8

**Unit-V**

5. What do you know term Correlation ? Prove that it lies between  $-1$  and  $+1$ . Explain its importance. 8

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