## PACE INSTITUTE OF TECHNOLOGY \& SCIENCES::ONGOLE (AUTONOMOUS)

II B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, JAN - 2023 STATISTICS FOR DATA SCIENCE
(AIDS Branch)
Time: 3 hours
Max. Marks: 60
Note: Question Paper consists of Two parts (Part-A and Part-B)
PART-A
Answer all the questions in Part-A (5X2=10M)

| Q.No. |  | Questions | Marks | CO | KL |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 1 | a) | What do you mean by the measure of central tendency? List various measures <br> of central tendency. | $[2 \mathrm{M}]$ | 1 |  |
|  | b) | Given a standard normal distribution, find the area under the curve that lies to <br> the right of $\mathrm{z}=1.84$ | $[2 \mathrm{M}]$ | 2 |  |
|  | c) | Find the value of the finite population correction factor for $\mathrm{n}=10$ and $\mathrm{N}=1000$. | $[2 \mathrm{M}]$ | 3 |  |
|  | d) | Define Type-1 and Type-2 errors. | $[2 \mathrm{M}]$ | 4 |  |
|  | e) | Write Normal equations to fit the second-degree parabola. | $[2 \mathrm{M}]$ | 5 |  |

## PART-B

Answer One Question from each UNIT (5X10=50M)



