

QB. IA-1Chap 1

- Q1) Difference between Structured & Unstructured data.
- Q2) What is estimate of location.
- Q3) What is relation b/w median and Robust estimates?
- Q4) What are the estimates of variability? / dispersion?

Maths

show that

- Q5) Standard deviation $>$ Mean AD $>$ Median AD.

IM

- Q6) What are the different tools used for data distribution?
- Q7) What is expected value (sum) or (Theory).
- Q8) What is correlation? why is it called as bivariate analysis.
- Q9) Numericals based on variance, SD, Mean, Mean AD, Median AD, Median.
- Q10) Numericals based on correlation.

Chp 2

- Q1) What are the types of samplings, methods of sampling.
- Q2) What is sample bias?
- VS Q3) Data quality v/s Data quantity.
- Q4) What is sampling procedure?
- Q5) What is selection bias?
- Q6) The answer include 2 concepts, Data Snooping, Vast search effect, By outliers / extreme observations tend to follow by mean.

2M VS

Q7) What is central limit Theorem?

2M

Q8) What is standard Error?

VS

Q9) Resampling v/s bootstrap

Sem

Q10) What is Normal Distribution / (Gaussian) distribution.

Q11) Demonstrate QQ plots. For normal distribution & Long-Tailed distribution

Q12) What is student's t-distribution?

Q13) What is binomial distribution?

semester

Q14) What is Chi-square test?

Q15) What is F-distribution?

Q16) What is Poisson's distribution?

Q17) What is Weibull distribution?