## IQRA NATIONALUNIVERSITY, PESHAWAR

## DEPARTMENT OF CED

## Mid Term Examination (Fall-2020)

Subject: Instructor:
Semester:

Probability \& Statistics
Anwar Shamim
$5^{\text {th }}$ Semester

Duration: 180 Minutes
Total Marks: 30

Note: Attempt all questions. Manage your time properly.
Q.No. (01)

15 (CLO-2)

The following are the scores made by three batsmen $\mathrm{A}, \mathrm{B}$ and C in a series of innings:

| A | 12 | 15 | 6 | 73 | 7 | 19 | 199 | 36 | 84 | 65 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B | 3 | 13 | 43 | 102 | 175 | 220 | 204 | 139 | 69 | 30 |
| C | 5 | 14 | 36 | 105 | 99 | 20 | 15 | 96 | 13 | 45 |

Who is better as a run getter? Who is more consistent player? Which one player is more variate?
Find the Empirical Relation for player A.
Q.No. (02)
$10(\mathrm{CLO}-2)$

The following is the distribution of wages per thousand employees in a certain factory.

| Classes | $2-4$ | $6-8$ | $10-12$ | $14-16$ | $18-20$ | $22-24$ | $26-28$ | $30-32$ | $34-36$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| F | 3 | 13 | 6 | 10 | 5 | 3 | 5 | 3 | 2 |

Calculate Mean, Mode, and Median? Discuss the symmetrical and skewness characteristics.
Q.No. (03)
(5) (CLO-1)

Discuss merits and demerits of Median and Geometric mean.

