PRACTICE QUESTIONS FOR MESURES OF POSITION

EXERCISE 2.4

1. The following data give the prices of seven textbooks randomly selected from a university bookstore.

\$89, \$170, \$104, \$113, \$56, \$161, \$147

Find Q_1 , Q_2 , Q_3 , D_7 , P_{57} for the data set.

$$(Ans: Q_1 = , Q_2 = , Q_3 = , D_7 = , P_{57} =)$$

2. The following data are the yields (in pounds) of hops

- (a) Find the quartiles Q_1 , Q_2 and Q_3 of the yields also interpret the results.
- **(b)** Find the deciles D_2 , D_5 and D_9 of the yields also interpret the results.
- (c) Find the percentiles P_{15} , P_{33} and P_{90} of the yields also interpret the results.

$$(Ans: Q_1 = 3.8, Q_3 = 5.6, D_2 = , D_5 = , D_9 = , P_{15} = 3.5, P_{33} = 4, P_{90} = 6.9)$$

3. CGPA of ten students of BS Data Science are as follows

Find percentile rank for the student having CGPA 3.4.

(Ans: Percentile Rank = 70)

4. Final Marks of 11 students in Business Statistics are as follows

- (a) Find Quartiles for the data.
- (b) Identify Outliers in the data if any.
- (c) Construct Box and whisker Plot for the given data.

$$(Ans: Q_1 = 58, Q_2 = 67, Q_3 = 75, Outlier = 9)$$

5. The marks of the pupils in a History examination are as follows

The marks of the pupils in a Physics examination are as follows

Draw box-and-whisker plots in a single diagram on graph paper to illustrate the marks for History and Physics.