



3, 4, 5, 6, 7, 7, 7, 7, 8, 9, 10, 11, 12

(6 marks)

4. A teacher collected information on the size of shoes worn by pupils in a class and obtained the following data:

| Shoe size | Frequency |
|-----------|-----------|
| 3         | 2         |
| 4         | 7         |
| 5         | 6         |
| 6         | 5         |
| 7         | 3         |
| 8         | 2         |

Calculate:

- a) The mean shoe size to the nearest whole number
  - b) The median
5. Using a relevant example, define each of the following terms:
- a) Estimation
  - b) Variable
  - c) Assessment

### Section B:

Answer any **TWO** questions in this Section (40 marks)

6. Reliability and validity are important test characteristics. Suppose you have been called upon to develop and oversee the administration of a reading test for 4 to 5 year olds. Explain the measures you would take to ensure that the test is valid and reliable. (20 marks)
7. The following is data on the scores of a group of children on a standard intelligence test and a measure of their performance on a creativity task.

| Child | IQ score | Task Performance |
|-------|----------|------------------|
| 1     | 100      | 96               |
| 2     | 110      | 75               |
| 3     | 95       | 93               |
| 4     | 105      | 90               |
| 5     | 120      | 85               |
| 6     | 125      | 80               |
| 7     | 118      | 84               |
| 8     | 130      | 78               |
| 9     | 115      | 86               |
| 10    | 123      | 89               |

- a) Calculate the Spearman Rho's Correlation Coefficient for the relationship between the IQ and creativity. (15 marks)
  - b) Comment on the relationship. (5 marks)
  
8. For the following set of marks:
 

19, 17, 12, 13, 20, 19, 10, 12, 11, 15

10, 20, 19, 11, 19, 13, 13, 17, 15, 13

14, 11, 15, 16, 15, 18, 18, 17, 11

20, 10, 14, 16, 17, 12, 18, 14, 16

Calculate:

  - a) The mode
  - b) The median
  - c) The mean using an assumed mean of your choice
  - d) The standard deviation using the raw scores formula
  
9. Discuss the importance of evaluation in the preschool set up, specifying the different types of evaluation and its role in such a set up. Give appropriate examples. (20 marks)