Q1) The number of times a particular entry occurs in an observation is:
   a) range   b) class mark   c) array   d) frequency.

Q2) The mean of first 20 natural numbers is:
   a) 10.5   b) 105   c) 11.5   d) 115

Q3) Mode is the value of the data:
   a) having maximum value
   b) whose position is in the middle
   c) occurring maximum number of times
   d) occurring minimum number of times.

Q4) A cricketer scores the following runs in eight innings: 48, 72, 30, 56, 0, 7, 100.
   The range of runs scored is:
   a) 30   b) 56   c) 93   d) 100.

Q5) The mean of a series of individual observation is 12. If each observation is increased by 1, then the value of the new mean:
   a) increases by 1   b) decreases by 1   c) remains same   d) can’t say.
Q6) Find the mean of first seven even natural numbers.

Q7) The daily wages of 20 workers (in Rs.) in a factory is given below. Make a frequency table for the data and then plot the bar graph:

150   147   170   160   152   146   165   160   135   140
172   157   148   155   150   170   180   150   152   165

Q8) The weights of 12 boys were measured in kg and the results are as follows:

39, 51, 38, 34, 29, 31, 42, 40, 52, 44, 41, 35

(i) What is the range of the data?

(ii) What is the mean weight?

(iii) What is the weight of the fattest boy?

(iv) How many boys have weights more than the mean weights?

Q9) The number of family members of 17 families are as follows:

4, 3, 5, 2, 4, 6, 7, 3, 5, 2, 4, 4, 6, 5, 4, 2, 3.

Find the mean, mode and median of this data.

Q. 10) Find the median of the following data:

i) 3, 5, 1, 2, 4, 6, 2, 2, 3

ii) 20, 23, 29, 21, 25, 27, 23, 30, 29, 24

Q. 11) The performance of students in 1st term and 2nd term is given. Draw a double bar graph choosing appropriate scale and answer the following:

<table>
<thead>
<tr>
<th>Subjects</th>
<th>1st Term</th>
<th>2nd Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English</td>
<td>Hindi</td>
</tr>
<tr>
<td>English</td>
<td>67</td>
<td>72</td>
</tr>
<tr>
<td>Hindi</td>
<td>72</td>
<td>65</td>
</tr>
</tbody>
</table>

i) In which subject, has child improved his performance the most?

ii) In which subject is the improvement needed?
iii) Has the performance gone down in any subject?

Q. 12) The mean of 1, 3, x and 7 is 5. Find the value of x.

Q. 13) Dheeraj asked his friend Anuj to choose any number from 1-20 and secretly note it down. What is the probability that the chosen number

(i) lies between 1-10?

(ii) is an even number?

(iii) is a multiple of 3?

Q. 14) Fill in the blanks:

(i) ______________ of a data is the most frequently occurring observation.

(ii) ______________ is the measure of the chance of an event happening

(iii) The probability of an event lies between ________ and ____________.

(iv) The probability of an impossible event is ____________.

(v) The probability of a sure event is ______________.

Q. 15) How many outcomes are possible when a letter is chosen from the word RAINBOW. List them. What is the probability of selection R?

Q16) From the following data showing population of a country in various years, draw a bar graph.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>POPULATION (in millions)</td>
<td>40</td>
<td>55</td>
<td>65</td>
<td>90</td>
</tr>
</tbody>
</table>

Population is increasing day by day in India. What do you mean by population explosion?