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| **Class: F.Y.J.C** | **Sub.:- Economics** | **Marks: 80** |
| **Date:-28.03.2019** | | **Timing: 2.00 to 5.00pm** |

**Q.1 A)  Fill in the blanks :-**                                                                 **5**
1.  Statistics is a _____.
    ( science, arts , language , maths )
2.  _____ is an orderly arrangement of data in rows and columns.
    (Diagram, Picture, frequency distribution, Table )
3.  The second quartile is known as_____ .
    (Mode , Median , Average , Normal )
4.  Index numbers are _____ barometers.
    ( statistical ,mathematics , economic , social)
5.  A Frequency polygon is a _____ line curve.
    ( straight line, Free hand,  Joint , Multi dimensions)

**B)  Match the  Following:-**                                                                    **5**

| Group A | Group B |
|---|---|
| 1. Higher order tables | a) Column title |
| 2. Simple bar diagram | b) Circular form |
| 3. Histogram | c) One Characteristic |
| 4. Multiple bar diagram | d) Two dimensional |
| 5. Pie diagram | e) Several characteristics |
| | f) More than three related |
| | g) Row heading |

**C)   State whether the following statements are True or False :**                **6**
1.  Secondary data is original data
2.  Statistics can not be used in research
3.  India is self-sufficient in the production of petroleum
4.  Any year can be taken as a base year
5.  Mode can be calculated by mere inspection
6.  Histogram gives a graphical presentation of continuous Frequency distribution

**Q.2 A)  Define or explain the concept (Any 3)**                                         **6**
1.  Internet
2.  Histogram
3.  Statistic
4.  Communication
5.  Census
6.  Median

**B)  Give Reason or Explain (Any 3)**                                                        **6**
1.  Statistics is helpful for economic planning
2.  Primary data is raw data
3.  There are many types of diagram
4.  Median divides the series into two equal parts
5.  Census method is more accurate
6.  Indian govt has opened up the infrastructure sector to private participation

**Q.3 A) Distinguish between : - (Any 3)**  6
1. Roadway and Railway
2. Primary data and Secondary data
3. Decile and Percentile
4. Price Index and Quantity Index
5. Histogram and Bar diagram
6. Random sampling and Deliberate sampling

**B) Write explanatory notes on : (Any 2)**  6
1. Importance of infrastructure
2. Types of sampling
3. Multiple bar diagram
4. Merits of Median

**Q.4 Write answers for the following questions (Any 3 )**  12
1. What are the different types of diagram?
2. State the features of statistic
3. Write merits and demerits of air transport in India
4. Explain the importance of Index numbers
5. Draw a Simple bar diagram using the following data

| Year | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|
| No. of worker | 40 | 120 | 80 | 240 | 160 |

6. Calculate median from the following data:

| Income in Rs. | 0 -10 | 10 -20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 |
|---|---|---|---|---|---|---|
| No. of person | 3 | 6 | 8 | 10 | 8 | 5 |

**Q.5 State with reason whether you agree or disagree (Any 3)**  12
1. Education forms the backbone of the modern economy
2. Statistics is not important to the students of Economics
3. Secondary data can be collected from published and unpublished source
4. There is only one type of diagram
5. Mean is the middle item of the series
6. Index number are not useful

**Q.6 Answer the following : (Any 2)**  16
1. Explain questionnaire method with its merits and demerits
2. Explain various commercial source of energy in India
3. What is mode? Calculate the mode from the following frequency distribution

| Sales in Cr. | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
|---|---|---|---|---|---|
| No. of firm | 4 | 6 | 12 | 8 | 3 |

4. What is Pie diagram? Draw a pie diagram from the following data.

| Items | Food | Clothing | House Rent | Education | Other expenses |
|---|---|---|---|---|---|
| % Expenditure | 40 | 20 | 20 | 10 | 10 |

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