

SET-1**Fill in the Blanks**

Choose appropriate word/term and fill in the blank:

- _____ bar diagram is based on a single set of numerical data. (Simple/Vertical)
- Sub-divided bar diagrams are also called _____ bar diagrams. (differential/percentage)
- In case of bar diagrams, _____ of the bar remains the same. (length/breadth)
- Pie diagram does not show _____ values. (absolute/relative)
- The _____ of the bars differs according to different values of the variable. (length/width)
- _____ bar diagram shows two or more sets of data simultaneously. (Multiple/Differential)
- _____ bar diagram is used when the values are of high magnitude. (Percentage/Component)
- Pie diagrams show _____ values. (percentage/absolute)
- _____ is an example of frequency diagram. (Polygon/Pie diagram)
- Bars showing _____ deviations are shown below the baseline. (positive/negative)

SET-2**Multiple Choice**

Choose the correct option:

- Which of the following is not a geometric form of data presentation?
 - Bar diagram
 - Pie diagram
 - Histogram
 - Both (a) and (b)
- Which of the following is an important feature of bar diagrams?
 - Bars are only of horizontal type
 - Length of the bars may be more or less but breadth remains the same
 - Bars are not equidistant from each other
 - All of these
- Which of the following is/are type(s) of bar diagram?
 - Multiple and Sub-divided bar diagrams
 - Polygon and Histogram
 - Pie diagram and Histogram
 - All of these
- The diagram that present total as well as part values of a set of data is known as:
 - component bar diagram
 - multiple bar diagram
 - differential bar diagram
 - both (a) and (c)
- Data related to profit and loss will be best shown using _____.
 - component bar diagram
 - percentage bar diagram
 - pie diagram
 - deviation bar diagram

6. **Data relating to birth rate in India is best presented by:**
 (a) simple bar diagram (b) component bar diagram
 (c) multiple bar diagram (d) pie diagram
7. **The values in percentage can be shown using _____.**
 (a) component bar diagram (b) percentage bar diagram
 (c) pie diagram (d) both (b) and (c)
8. **Pie diagram is a circle divided into various segments showing the _____.**
 (a) total values of a series (b) part values of a series
 (c) per cent values of a series (d) all of these
9. **Bar diagrams are those diagrams in which:**
 (a) data are presented in the form of bars
 (b) data are presented in the form of rectangles
 (c) both (a) and (b)
 (d) none of these
10. **Bars are also called:**
 (a) rows (b) columns
 (c) stubs (d) none of these
11. _____ **bar diagrams are used generally when the values are of high magnitude.**
 (a) Component (b) Percentage
 (c) Multiple (d) Differential
12. **Which of the following statements is not correct?**
 (a) Bars are equidistant from each other
 (b) Usually bars are used in their vertical form
 (c) Length of bars remains the same
 (d) Bar diagram is based on a common base line
13. **Percentage distribution of the values is best presented as:**
 (a) simple bar diagram (b) component bar diagram
 (c) multiple bar diagram (d) pie diagram
14. **In circular diagrams, percentage values of data are converted into component parts of _____ of a circle.**
 (a) 90° (b) 180°
 (c) 270° (d) 360°
15. **The other name of sub-divided bar diagram is _____.**
 (a) differential bar diagram (b) component bar diagram
 (c) multiple bar diagram (d) both (a) and (b)
16. **In case of bar diagrams, the height of bars:**
 (a) does not differ according to different values of the variable
 (b) differs according to different values of the variable
 (c) is always equal to breadth of bars
 (d) none of these
17. **Which of the following is a major limitation of simple bar diagrams?**
 (a) These diagrams show only a single set of numerical data
 (b) These diagrams show two set of numerical data
 (c) These diagrams show multiple set of numerical data
 (d) None of these

18. Pie diagram does not show _____ values.
- (a) relative (b) absolute
(c) total (d) none of these
19. In case of bar diagrams, _____ remains the same.
- (a) length of the bar (b) height of the bar
(c) breadth of the bar (d) none of these
20. Diagrams which simultaneously show different parts of the values of a set of data in terms of percentages are called:
- (a) simple bar diagrams (b) multiple bar diagrams
(c) sub-divided bar diagrams (d) percentage bar diagrams

SET-3

True or False

State whether the following statements are True or False:

- Differential bar diagrams present only part values of a set of data. (True/False)
- Percentage values are converted into component parts of 360° of a circle before being presented in the form of a pie diagram. (True/False)
- Percentage bar diagram is used when the values are of high magnitude. (True/False)
- Height of the rectangles of the bar diagram is proportional to the size of the class interval. (True/False)
- Negative profit is indicated by bars above the base line. (True/False)
- Sub-divided bar diagrams are also known as component bar diagrams. (True/False)
- Pie diagram is a circle showing absolute values of the series. (True/False)
- Multiple bar diagrams are generally used to make comparison between two sets of series such as birth-rate and death-rate series. (True/False)
- Width of bars in a bar diagram need not be equal. (True/False)
- Simple bar diagrams only show one set of data. (True/False)

[NCERT]

SET-4

True-False Alternatives

In the following questions (1-5), two statements are given. Read the statements carefully and choose the correct alternative among those given below:

Alternatives:

- Both the statements are true
- Both the statements are false
- Statement 1 is true and Statement 2 is false
- Statement 2 is true and Statement 1 is false

1. **Statement 1** : Bars are also called columns.

Statement 2 : Bars in bar diagrams are equidistant from each other.

2. **Statement 1** : Simple bar diagrams are those diagrams which are based on a single set of numerical data.

Statement 2 : Bar diagrams do not facilitate the comparison of net deviation of related variables with respect to time and location.

1. **Assertion (A)** : In bar diagrams, data are presented in the form of bars or rectangles.
Reason (R) : Bar diagram is a one-dimensional diagram.
2. **Assertion (A)** : Deviation bar diagrams are used to compare the net deviation of related variables with respect to time and location.
Reason (R) : In deviation bar diagrams, bars represent the deviations in magnitude as well as in direction.
3. **Assertion (A)** : Simple bar diagrams only show one set of data.
Reason (R) : Differential bar diagrams are used generally when the values are of high magnitude.
4. **Assertion (A)** : Multiple bar diagrams show two or more sets of data simultaneously.
Reason (R) : Negative profit is indicated by bars below the base line.
5. **Assertion (A)** : Height of rectangles of bar diagram is proportional to the size of class interval.
Reason (R) : Percentage bar diagrams simultaneously show different parts of the values of a set of data in terms of percentage.

ANSWERS

SET-1

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|-------------|-----------------|---------------|-------------|--------------|
| 1. Simple | 2. differential | 3. breadth | 4. absolute | 5. length |
| 6. Multiple | 7. Percentage | 8. percentage | 9. Polygon | 10. negative |

SET-2

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. (c) | 2. (b) | 3. (a) | 4. (d) | 5. (d) | 6. (a) | 7. (d) | 8. (c) | 9. (c) | 10. (b) |
| 11. (b) | 12. (c) | 13. (d) | 14. (d) | 15. (d) | 16. (b) | 17. (a) | 18. (b) | 19. (c) | 20. (d) |

SET-3

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|----------|---------|---------|----------|----------|---------|----------|---------|----------|----------|
| 1. False | 2. True | 3. True | 4. False | 5. False | 6. True | 7. False | 8. True | 9. False | 10. True |
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SET-4

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|--------|--------|--------|--------|--------|
| 1. (a) | 2. (c) | 3. (a) | 4. (b) | 5. (d) |
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SET-5

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|--------|--------|
| 1. (b) | 2. (c) |
|--------|--------|

SET-6

- | | | | | |
|--------|--------|--------|--------|--------|
| 1. (b) | 2. (b) | 3. (c) | 4. (b) | 5. (d) |
|--------|--------|--------|--------|--------|