

KAHM UNITY WOMEN'S COLLEGE,

MANJERIDEPARTMENT OF

PSYCHOLOGY

QUESTION BANK

SEMESTER 1

STA1C02 DESCRIPTIVE STATISTICS

Multiple Choice questions

1. If the difference between mean and mode is 48 and median is 12, Find mean.
A.8
B.28
C.42
D.None of the above
2. If mean and mode of some data are 4 & 10 respectively, its median will be:
A.1.5
5.3
16
6
3. If the standard deviation of 0, 1, 2, 3 _____ 9 is K, then the standard deviation of 10, 11, 12, 13 _____ 19 will be:
A. K+
1B.K
C K + 4
D.K + 8
4. an exclusive type distribution, the limits excluded are
 - a. Lower limit
 - b. Upper limit
 - c. Either of lower or upper limit
 - d. Both a and b

5. Classification is applicable

Quantitative classification

- a. Qualitative classification
- b. Both a and b
- c. None of these

6. Mode can be calculated from

- a. Ogive
- b. Histogram
- c. Bar diagram
- d. Pie-chart

7. Numerical data presented in descriptive form is called

- a. Classified presentation
- b. Tabular presentation
- c. Graphical presentation
- d. Textual presentation

8. A frequency distribution can be :

- a. Discrete
- b. Continuous
- c. Both a and b
- d. None of these

9. Which measure of central tendency includes the magnitude of scores?

- A. Mean
- B. Mode
- C. Media

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D. Rang

e

10. _____ is not a measure of central tendency.

- A. Mode
- B. Mean
- C. Range
- D. Media

11. Which of the following are methods under measures of dispersion?

A. Standard deviation

B. Mean deviation

C. Range

D.All of the above

12. The coefficient of variation is a percentage expression for_____.

A. Standard deviation

B. Quartile deviation

C. Mean deviation

D. None of the above

13. Types of data of statistics

A .Primary data

B.Second date

C.Observation

D. both a and b

14.A distribution with a kurtosis less than 3 is known as:

A.Platykurtic

B.Mesokurtic

C.Leptokurtic

D.Hyperkurtic

15 What is the kurtosis of a normal distribution?

A.0

B.1

C.2

D.3

16 What is the skewness of a normal distribution?

A.0

B.1

C.-

1

D.2

17. If the distribution is negatively skewed, then the:

- A. mean is more than the mode
- B. median is at right to the mode
- C. mean is less than the mode
- D. mean is at right to the median

18. Which of the following type of variables would have a true zero point?

- A. Nominal
- Ordinal
- Interval
- D. Ratio

19. Which among the following is published sources

- A. UNO
- B. WT
- O
- C. CB
- S

World bank

20. Monthly rainfall in a city is an example of:

- A. Continuous variable
- Discrete variable
- Qualitative variable
- Independent variable

mark questions

1. Write the method of collecting primary data?

Define primary data

3. Define sample method

4. write four types of scales

5. Write quantitative and qualitative data 6. define

histogram

7. What are the graphical methods of representation of frequency data? write

three categories of frequency distribution?

9. Calculate the AM of the following data

Weekly wage: 0-7 , 8-15 , 16-23 , 24-31 , 32-39 , 40-47

Frequency. :8, 15, 37, 20, 18, 5 10. Write

two merit and demerits of Am 11. define

Harmonic mean

12. find mode of the following data

Size of shoes: 3, 4, 5, 6, 7, 8, 9

No. of solded: 10, 25, 32, 38, 61, 47, 34

13. Define quartiles

14. Calculate coefficient of range from the following data

Marks: 10-20, 20-30, 30-40, 40-50, 50-60

No. of students: 8, 10, 12, 8, 4

15. Write the expression of SD for frequency

16. define mean deviation about mean

17. define Kurtosis?

18. What is dispersion?

19. Define Kelly's coefficient of skewness

20. Define expression for Karl Pearson's coefficient of skewness

5-mark questions

1. Define primary and secondary data

2. Explain methods of collecting primary data

3. Explain Population and census

4. Explain Bar Diagram and types of bar diagram

5. Explain Quantitative and qualitative classification

6. Explain chronological and geographical classification

7. Tabulate the following data of coconut obtained from 60 coconut trees to which a particular Fertilizer's applied?

63, 52, 77, 30, 61, 48, 51, 69, 48, 16, 34, 55, 35, 24, 65, 36, 51, 42, 61, 55, 47, 61, 74, 49, 51, 47, 50, 38, 46, 69, 29, 64, 36, 72, 46, 46, 75, 37, 49, 45, 46, 52, 39, 67, 62, 47, 68, 39, 52, 53, 49, 46, 27, 64, 19, 49, 81, 41, 54, 47.

8. Representing the following data by a histogram.

Subscribed capital: 0-10, 10-30, 30-80, 80-100

No. of students. : 25, 22, 21, 6

9. Calculate the median of the following data

Class. :15-19,20-24,25-29,30-34,35-39,40-44

Frequency: 4,20,38,24,10,4

10. Calculate the mode of the following data

Class: 0-9, 10-19, 20-29, 30-39, 40-49, 50-59

Frequency: 5, 10, 17, 33, 22, 13

11. calculate Geometric mean of the following data

Class: 1-3, 4-6, 7-9, 10-12

Frequency: 8, 16, 15, 3

12. Differentiate between mean, median and mode

13. Calculate quartiles deviation and the coefficient of QD for the following data.

Wage: 1500, 3000, 4500, 6000, 7500, 8000

No. of workers: 1, 4, 8, 21, 10, 8

14. Obtain the standard deviation and coefficient of variation of the following data on the patients admitted in a hospital for last 10 days:

28, 23, 25, 32, 35, 38, 36, 24, 18, 21

15. Calculate MD about mean and coefficient of the MD of the following data

Class: 0-10, 10-20, 20-30, 30-40, 40-50

Frequency: 5, 15, 17, 11, 2

16. Calculate SD of 23, 25, 28, 31, 38, 40, 46

17. Explain Pearson's and Bowley's measures of skewness.

18. Write a short note on Kurtosis.

19.

10-mark questions

1. Briefly explain primary and secondary data?

2. Explain the scales of measurement?

3. Explain Diagrammatic and graphic representation of data?

4. Explain multiple bar diagram and construct multiple bar diagram from the following data.

Religion	population (%)			
	1981.	1991.	2001.	2011
Hindu	82.3	81.53	80.46.	79.8
Muslim.	11.75.	12.61	13.43.	14.27
Christian	2.44.	2.32.	2.34.	2.3

Others. 3.51. 3.54. 3.77. 3.67

5. Draw the 2 ojives separately from the following data

Class. : 0-9,10-19,20-29,30-39,40-49,50-59,60-69,70-79,80-89

Frequency:8,8,3,8,4,7,6,2,1

7. Define graphical methods of presentation of frequency distribution

8. Define frequency curve and draw a frequency polygon for the following data

Capital :0-10, 10-30,30-80,80-100

(In crores)

No. of companies: 25, 22,21,6

8. Briefly explain frequency distribution and tabulate the following data of coconut obtained from 60 coconut trees to which a particular fertilizer's' applied

63, 52,

77,30,61,48,51,69,48,16,34,55,35,24,65,36,51,42,61,55,47,61,74,49,51,47,50,38,46,69,64,29,36,72,
46,46,75,37,49,75,46,52,39,67,62,42,68,39,52,53,49,46,27,64,19,49,81,41,54,47

7. Define graphical methods of presentation of frequency distribution 8.7. Define

graphical methods of presentation of frequency distribution 8. Define frequency curve

and draw a frequency polygon for the following data Capital :0-10, 10-30,30-

80,80-100

(In crores)

No. of companies: 25, 22,21,6

9. Write down the merits of mode and calculate mode of following data

Class:0-9,10-19,20-29,30-39,40-49,50-59

Frequency: 5,10,17,33,22,13 10. Calculate

median of the following data Class : 15-

19,20-24,24-29,30-39,40-49

Frequency:4,20,28,38,29,10,4

11. Find mean & median for the following data

Marks:0-10,10-20,20-30,30-40,40-50,50-60,60-70,70-80,80-90

Frequency:4,2,18,22,21,19,10,3,1

12. Find the mean, medium and mode of the following data

Class:15-19,20-24,25-29,30-34,35-39,40-44

Frequency:4,20,38,24,10,4

13. Calculate the standard deviation and coefficient of variation for the following data

Class: 0-10,10-20,20-30,30-40,40-50,50-60,60-70

Frequency:10,15,25,25,10,10,5

14. calculate MD about median and coefficient of MD about median

Class:0-4,5-9,10-14,15-19,20-24

Frequency:2,6,10,7,5

15. Calculate QD for the following data

Class:0-49,50-99,100-149,150-199,200-249

Frequency:8,7,8,8,6

16. Calculate MD about mean and coefficient of mean of the following dataClass:

0-10, 10-20, 20-30, 30-40, 40-50

Frequency: 5,15,17,11,2

17. The following frequency distribution indicate the test scores of 40 students in educational measurement of evaluation. Find the measure of kurtosis based on quartiles

Scores	frequency
65-69	2
60-64	2
55-59	3
50-54	1
45-49	6
40-44	11
35-39	8
30-34	3
25-29	2
20-24	2

18. Briefly explain skewness with diagram

19. explain types of measures of skewness

20. Briefly explain kurtosis