

NATIONAL MANAGEMENT COLLEGE, THUDUPATHI.

REVISION TEST - 12 (15.04.22)

PAPER : 3- BUSINESS MATHEMATICS, LOGICAL REASONING AND STATISTICS

TIME : 1/2 HOUR

CLASS : CA - FOUNDATION

MARKS : 25 X 1 = 25

CHOOSE THE BEST ANSWER

1. Measures of central tendency for a given set of observations gives

- a) The most representative value
- b) the central location of the observations
- c) a & b
- d) none of these

2. For open-end classification, which of the following is the best measure of central tendency?

- (a) AM (b) GM (c) Median (d) Mode

3. The presence of extreme observations does not affect

- (a) AM (b) Median (c) Mode (d) Any of these

4. Which of the following results hold for a set of distinct positive observations?

- (a) $AM \geq GM \geq HM$ (b) $HM \geq GM \geq AM$
(c) $AM > GM > HM$ (d) $GM > AM > HM$

5. What is the GM for the numbers 8, 24 and 40?

- (a) 24 (b) 12 (c) $8\sqrt[3]{15}$ (d) 10

6. For the following incomplete distribution of marks of 100 pupils, median mark is known to be 32.

Marks:	0–10	10–20	20–30	30–40	40–50	50–60
No. of Students:	10	–	25	30	–	10

What is the mean mark?

- (a) 32 (b) 31 (c) 31.30 (d) 31.50

7. The mean of 10 items was 70. Later on it was found out that one item 92 was misread as 29. What was the correct mean?

- a) 76.3 b) 70 c) 18.7 d) 63.78

8. Calculate arithmetic mean from the following data: (Using assume mean method)

X	Less than 10	Less than 20	Less than 30	Less than 40	Less than 50
f	5	15	55	75	100

- a) 50 b) 40 c) 30 d) 20

9. The weights of 8 boys in kilograms: 45, 39, 53, 45, 43, 48, 50, 45. Find the median.

- a) 39 b) 43 c) 45 d) 50

10. The median and mode for a given data set are 56 and 54 respectively. Find the approximate value of the mean for this data set.

- a) 54 b) 55 c) 56 d) 57

11. The most suitable average for qualitative measurement is

- a) Arithmetic mean
- b) Median
- c) Geometric mean
- d) None of these

12. The algebraic sum of deviation of a set of n values from AM is

- a) n
- b) 0
- c) 1
- d) None of these

13. Simple average is sometimes called

- (a) weighted average (b) unweighted average
(c) relative average (d) none

14. When a frequency distribution is given, the frequencies themselves treated as weights.

- (a) True (b) false (c) both (d) none

15. Median of variable x is 25. What is the median of variable $y = \frac{6x-25}{4}$?

- a) 100 b) 31.25 c) 25 d) none of these

16. Median of observations $a + 1, a - 7, a - 5, a + 5, a + 3$ is 5 then what is the value of a ?

- a) 5 b) 4 c) 6 d) none of these

17. Find the HM for the following data:

$x: 2 \quad 4 \quad 8 \quad 16$

$f: 2 \quad 3 \quad 3 \quad 2$

- a) 2.22 b) 3.33 c) 4.44 d) 5.55

18. Which of the following measure of the central tendency is difficult to compute?

- (a) Mean (b) Median (c) Mode (d) GM

19. Which measure(s) of central tendency is(are) considered for finding the average rates?

- (a) AM (b) GM (c) HM (d) Both (b) and (c)

20. Mode of variable x is 20. What is the mode of variable $x + 3y + 40 = 0$?

- a) 20 b) 180 c) -20 d) none of these.

21. Logarithm of G.M is the _____ of logarithms of the different values.

- (a) weighted mean (b) simple mean (c) both (d) none

22. _____ is not much affected by fluctuations of sampling.

- (a) A.M (b) G.M (c) H.M (d) none

23. _____ is used when rate of growth or decline required.

- (a) mode (b) A.M (c) G.M (d) none

24. In finding _____, the distribution has open-end classes.

- (a) median (b) mean (c) standard deviation (d) none

25. what is the geometric mean of $2^1, 2^2, 2^3, \dots, 2^n$?

- a) $2^{1/n}$ b) $2^{2/n+1}$ c) $2^{n+1/2}$ d) none of these