

National Testing Agency

Question Paper Name :	Descriptive Statistics 28th August 2021 Shift 1
Subject Name :	Descriptive Statistics
Creation Date :	2021-08-28 19:32:05
Duration :	180
Total Marks :	100
Display Marks:	Yes

Descriptive Statistics

Group Number :	1
Group Id :	603489169
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Descriptive Statistics-1

Section Id :	603489241
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	603489470
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 60348912479 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The data which assumes only some specific values in a given range is called

1. Discrete Data
2. Ration Data
3. Continuous Data
4. Interval Data

Options :

60348947279. 1

60348947280. 2

60348947281. 3

60348947282. 4

Question Number : 2 Question Id : 60348912480 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Unpublished personal records includes:

1. Government Records
2. Diaries
3. Newspapers
4. e-journals

Options :

60348947283. 1

60348947284. 2

60348947285. 3

60348947286. 4

Question Number : 3 Question Id : 60348912481 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a qualitative variable?

1. annual salary
2. weight
3. age
4. eye colour

Options :

60348947287. 1

60348947288. 2

60348947289. 3

60348947290. 4

Question Number : 4 Question Id : 60348912482 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The data in the hands of an individual gathered for some other purpose but utilized by others for a specific problem is known as _____ data.

1. Primary
2. Secondary
3. Qualitative
4. Quantitative

Options :

60348947291. 1

60348947292. 2

60348947293. 3

60348947294. 4

Question Number : 5 Question Id : 60348912483 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a merit of questionnaire?

1. Easy to find out whether the respondents are true representatives
2. Adequate time for respondents to give well thought answers
3. No chance of ambiguous replies, omissions and misinterpretations of questions
4. Can be used only for educated and cooperating respondents

Options :

60348947295. 1

60348947296. 2

60348947297. 3

60348947298. 4

Question Number : 6 Question Id : 60348912484 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____generally contain reports of original research or experimentation written by experts in specific fields.

1. Scholarly journals
2. Trade journals
3. Literature review articles
4. Technical reports

Options :

60348947299. 1

60348947300. 2

60348947301. 3

60348947302. 4

Question Number : 7 Question Id : 60348912485 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Robert Arthur is registered for a BSc degree with code: Comb03. Shara Kumar is registered for a BCom degree with code: Comb06. These observations Comb03 and Comb06 are on the _____ scale

1. descriptive
2. nominal
3. ordinal
4. interval

Options :

60348947303. 1

60348947304. 2

60348947305. 3

60348947306. 4

Question Number : 8 Question Id : 60348912486 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a stem and leaf chart the digits in the largest place are referred to as the _____.

1. Leaf
2. Stem
3. Root
4. box

Options :

60348947307. 1

60348947308. 2

60348947309. 3

60348947310. 4

Question Number : 9 Question Id : 60348912487 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A stem and leaf display describes two-digit integers between 20 and 80. For one of the classes displayed, the row appears as 3|2 6 8. What numeric values are being described?

1. 32, 36 and 38
2. 23, 63 and 83
3. 320, 360 and 380
4. 32, 36 and 37.

Options :

60348947311. 1
60348947312. 2
60348947313. 3
60348947314. 4

Question Number : 10 Question Id : 60348912488 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Bar diagram is an example of _____.

1. One – dimensional diagram
2. Two – dimensional diagram
3. Three – dimensional diagram
4. None of these

Options :

60348947315. 1
60348947316. 2
60348947317. 3
60348947318. 4

Question Number : 11 Question Id : 60348912489 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a box-plot the line connectors are called _____.

1. Box
2. Line Plots
3. Box Plots
4. Whiskers

Options :

60348947319. 1

60348947320. 2

60348947321. 3

60348947322. 4

Question Number : 12 Question Id : 60348912490 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not found in a frequency distribution?

1. Class limits
2. Class intervals
3. Individual observations within each class
4. All of these are found in a frequency distribution.

Options :

60348947323. 1

60348947324. 2

60348947325. 3

60348947326. 4

Question Number : 13 Question Id : 60348912491 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What does N.S.S.O stands for?

1. National Survey Sample Organisation
2. National Simple Survey Organisation
3. National Survey Simple Organisation
4. National Sample Survey Organisation

Options :

60348947327. 1

60348947328. 2

60348947329. 3

60348947330. 4

Question Number : 14 Question Id : 60348912492 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A frequency distribution is

1. used to calculate mean only
2. classification of quantitative data
3. summary of data
4. none of these

Options :

60348947331. 1

60348947332. 2

60348947333. 3

60348947334. 4

Question Number : 15 Question Id : 60348912493 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The difference between the upper and lower limit of a class interval is called as

_____.

1. Mid value
2. Frequency density
3. class width
4. Range

Options :

60348947335. 1

60348947336. 2

60348947337. 3

60348947338. 4

**Question Number : 16 Question Id : 60348912494 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

In a _____ type of class interval, the value of upper limit is not included in the same group for counting

1. Prediction intervals
2. Exclusive intervals
3. Inclusive intervals
4. Open end intervals

Options :

60348947339. 1

60348947340. 2

60348947341. 3

60348947342. 4

**Question Number : 17 Question Id : 60348912495 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

First quartile Q1 is also known as _____.

1. Upper Quartile
2. Lower Quartile
3. Initial quartile
4. Median

Options :

60348947343. 1

60348947344. 2

60348947345. 3

60348947346. 4

Question Number : 18 Question Id : 60348912496 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The variable which is repeated maximum number of time in the series is known as _____.

1. Arithmetic mean
2. Median
3. Geometric Mean
4. Mode

Options :

60348947347. 1

60348947348. 2

60348947349. 3

60348947350. 4

Question Number : 19 Question Id : 60348912497 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ divides a series into two equal parts

1. Percentile
2. Median
3. Quartiles
4. Mode

Options :

60348947351. 1

60348947352. 2

60348947353. 3

60348947354. 4

Question Number : 20 Question Id : 60348912498 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If each of the observation is multiplied by the 10, the mean of the new set of observation

1. Remains the same
2. is ten times the original mean
3. is one tenth of the original mean
4. is increased by 10 from the original mean

Options :

60348947355. 1

60348947356. 2

60348947357. 3

60348947358. 4

Question Number : 21 Question Id : 60348912499 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Extreme value much affects the value of

1. AM
2. Median
3. Mode
4. All of these

Options :

60348947359. 1

60348947360. 2

60348947361. 3

60348947362. 4

Question Number : 22 Question Id : 60348912500 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Mean is the_____

1. central value of the ordered data.
2. value which occur most frequently.
3. sum of all the observation divided by number of observation.
4. None of these

Options :

60348947363. 1

60348947364. 2

60348947365. 3

60348947366. 4

Question Number : 23 Question Id : 60348912501 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The average which is based on reciprocal of all values_____

1. Median
2. Mode
3. Harmonic mean
4. Geometric mean

Options :

60348947367. 1

60348947368. 2

60348947369. 3

60348947370. 4

Question Number : 24 Question Id : 60348912502 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The two averages which can be obtained graphically are_____

1. AM and GM
2. AM and mode
3. Mode and Median
4. AM and median

Options :

60348947371. 1

60348947372. 2

60348947373. 3

60348947374. 4

Question Number : 25 Question Id : 60348912503 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sample survey is more _____ in nature

1. Scientific
2. Natural
3. Uncontrolled
4. none of the above

Options :

60348947375. 1

60348947376. 2

60348947377. 3

60348947378. 4

Question Number : 26 Question Id : 60348912504 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ is used to determine the popularity of a commodity in a group of people

1. Mean
2. Median
3. Mode
4. None of these

Options :

60348947379. 1

60348947380. 2

60348947381. 3

60348947382. 4

Question Number : 27 Question Id : 60348912505 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Measure of dispersion is also termed as _____

1. Measures of Central Tendency
2. Measures of Variation
3. Both the options
4. None of these

Options :

60348947383. 1

60348947384. 2

60348947385. 3

60348947386. 4

Question Number : 28 Question Id : 60348912506 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The numerical value of variance is

1. Always Positive
2. Always Negative
3. sometimes positive and negative
4. None of the above

Options :

60348947387. 1

60348947388. 2

60348947389. 3

60348947390. 4

Question Number : 29 Question Id : 60348912507 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Quartile deviation is equal to:

1. Inter quartile range
2. Double the inter quartile range
3. Half of the inter quartile range
4. None of the above

Options :

60348947391. 1

60348947392. 2

60348947393. 3

60348947394. 4

Question Number : 30 Question Id : 60348912508 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If a constant value of 5 is added to all the observation of a set, then the new variance is _____ of old variance.

1. 5 times
2. Increased by 5
3. Increased by 25
4. Same as

Options :

60348947395. 1

60348947396. 2

60348947397. 3

60348947398. 4

Question Number : 31 Question Id : 60348912509 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the minimum value in a set is 9 and its range is 57, the maximum value of the set is _____

1. 33
2. 66
3. 48
4. None of these

Options :

60348947399. 1

60348947400. 2

60348947401. 3

60348947402. 4

Question Number : 32 Question Id : 60348912510 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of these is not a measure of absolute measure of dispersion?

1. Range
2. Coefficient of mean deviation
3. Quartile deviation
4. Standard Deviation

Options :

60348947403. 1

60348947404. 2

60348947405. 3

60348947406. 4

Question Number : 33 Question Id : 60348912511 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the formula to calculate the coefficient of quartile deviation?

1. $(Q_3 - Q_1) / (Q_3 + Q_1)$
2. $(Q_3 + Q_1) / (Q_3 - Q_1)$
3. $(Q_3 - Q_1) / 2$
4. $(Q_3 + Q_1 - 2Q_2) / (Q_3 - Q_1)$

Options :

60348947407. 1

60348947408. 2

60348947409. 3

60348947410. 4

Question Number : 34 Question Id : 60348912512 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In _____ all odd moments will always be zero.

1. frequency distribution
2. symmetrical distribution
3. asymmetrical distribution
4. none of these

Options :

60348947411. 1

60348947412. 2

60348947413. 3

60348947414. 4

Question Number : 35 Question Id : 60348912513 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When a curve is flat topped than the normal curve, it is called a _____ curve.

1. Leptokurtic
2. Mesokurtic
3. Platykurtic
4. None of these

Options :

60348947415. 1

60348947416. 2

60348947417. 3

60348947418. 4

Question Number : 36 Question Id : 60348912514 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

We use kurtosis to help in identifying the degree of _____ of frequency curve in the region about the mode

1. Skewness
2. dispersion
3. property of central tendency
4. None of the above

Options :

60348947419. 1

60348947420. 2

60348947421. 3

60348947422. 4

Question Number : 37 Question Id : 60348912515 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The data is said to be consistent to organize in a contingency table for finding association, if no class frequency is

_____.

1. Positive
2. Negative
3. Zero
4. Less than five

Options :

60348947423. 1

60348947424. 2

60348947425. 3

60348947426. 4

**Question Number : 38 Question Id : 60348912516 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

The easy way of finding the type of relationship to fit a curve is_____.

1. Scatter diagram
2. Bar diagram
3. Pie diagram
4. All of these

Options :

60348947427. 1

60348947428. 2

60348947429. 3

60348947430. 4

**Question Number : 39 Question Id : 60348912517 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

To find normal equations for fitting a curve by method of least squares, we minimize _____.

1. Error sum of square
2. Total sum of square
3. variance
4. Error sum of square and the total sum of square

Options :

60348947431. 1

60348947432. 2

60348947433. 3

60348947434. 4

Question Number : 40 Question Id : 60348912518 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The geometric curve is also called as

1. power curve
2. exponential curve
3. growth curve
4. None of these

Options :

60348947435. 1

60348947436. 2

60348947437. 3

60348947438. 4

Question Number : 41 Question Id : 60348912519 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In _____ correlation, we study together the relationship between two factors

1. Partial
2. Simple
3. Non-linear
4. Multiple

Options :

60348947439. 1

60348947440. 2

60348947441. 3

60348947442. 4

Question Number : 42 Question Id : 60348912520 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Product moment correlation coefficient is also known as _____.

1. Non linear correlation coefficient
2. Karl Pearson's correlation coefficient
3. Rank Correlation coefficient
4. None of these

Options :

60348947443. 1

60348947444. 2

60348947445. 3

60348947446. 4

Question Number : 43 Question Id : 60348912521 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The limit for product moment correlation coefficient is _____.

1. -1 to +1
2. -1 to ∞
3. 0 to 1
4. $-\infty$ to ∞

Options :

60348947447. 1

60348947448. 2

60348947449. 3

60348947450. 4

Question Number : 44 Question Id : 60348912522 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Skewness is the property of lack of _____ in a distribution

1. Measures of central tendency
2. Symmetry
3. Repetition
4. None of these

Options :

60348947451. 1

60348947452. 2

60348947453. 3

60348947454. 4

Question Number : 45 Question Id : 60348912523 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When the mean, median and mode of the distribution do not have the same value in a distribution, we call it as a _____

1. Skewed distribution
2. Normal distribution
3. Symmetric distribution
4. None of these

Options :

60348947455. 1

60348947456. 2

60348947457. 3

60348947458. 4

Question Number : 46 Question Id : 60348912524 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the variables in a bivariate distribution are related, then the points in the scatter diagram will cluster around _____

1. Curve of relation
2. line of regression
3. Curve of regression
4. None of these

Options :

60348947459. 1

60348947460. 2

60348947461. 3

60348947462. 4

Question Number : 47 Question Id : 60348912525 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The coefficient of correlation obtained by product moment method is the _____ of the regression coefficients

1. Harmonic mean
2. Geometric mean
3. Arithmetic mean
4. None of these

Options :

60348947463. 1

60348947464. 2

60348947465. 3

60348947466. 4

Question Number : 48 Question Id : 60348912526 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the two variables are uncorrelated, the lines of regression become _____ to each other

1. Adjacent
2. Parallel
3. Perpendicular
4. None of these

Options :

60348947467. 1

60348947468. 2

60348947469. 3

60348947470. 4

Question Number : 49 Question Id : 60348912527 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In case of perfect correlation, positive or negative, the two lines of regression will be _____.

1. Overlapped
2. adjacent
3. Parallel
4. Perpendicular

Options :

60348947471. 1

60348947472. 2

60348947473. 3

60348947474. 4

Question Number : 50 Question Id : 60348912528 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When one regression coefficient is negative the other regression coefficient is _____.

1. Positive
2. Zero
3. Negative
4. Positive or negative

Options :

60348947475. 1

60348947476. 2

60348947477. 3

60348947478. 4

Question Number : 51 Question Id : 60348912529 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The regression coefficients remain unchanged due to _____.

1. Shift of origin only
2. Shift of scale only
3. Both change of scale and change of origin
4. Property of same sign

Options :

60348947479. 1

60348947480. 2

60348947481. 3

60348947482. 4

Question Number : 52 Question Id : 60348912530 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a tri-variate distribution, if all the simple correlation coefficients are equal to ρ , then the value of $1 - R_1^2$ is equal to

1. $(1-\rho)(1+2\rho)/(1+\rho)$
2. $[(1+\rho) - (1-\rho)(1+2\rho)]/(1+\rho)$
3. $(1-\rho)(1-2\rho)/(1+\rho)$
4. $(1+\rho)(1-2\rho)/(1-\rho)$

Options :

60348947483. 1

60348947484. 2

60348947485. 3

60348947486. 4

Question Number : 53 Question Id : 60348912531 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In tri-variate data of variables X_1, X_2, X_3 partial correlation coefficient $r_{12.3}$ is the simple correlation between _____ after eliminating the linear effect of the remaining variable.

1. X_1 and X_2
2. X_2 and X_3
3. X_1 and X_3
4. X_3 and X_2

Options :

60348947487. 1
60348947488. 2
60348947489. 3
60348947490. 4

Question Number : 54 Question Id : 60348912532 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The degree of relation between three or more variables is called _____

1. Partial Correlation
2. Correlation
3. Variate correlation
4. Multiple Correlation

Options :

60348947491. 1
60348947492. 2
60348947493. 3
60348947494. 4

Question Number : 55 Question Id : 60348912533 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Partial correlation coefficient helps in deciding whether to include or not an additional independent variable in _____.

1. correlation analysis
2. regression analysis
3. trend analysis
4. linear analysis

Options :

60348947495. 1

60348947496. 2

60348947497. 3

60348947498. 4

Question Number : 56 Question Id : 60348912534 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If $r_{12} = 0.7$, $r_{23} = r_{31} = 0.5$, then $r_{23.1}$ is _____.

1. 0.2425
2. 0.4245
3. 0.2524
4. None of these

Options :

60348947499. 1

60348947500. 2

60348947501. 3

60348947502. 4

Question Number : 57 Question Id : 60348912535 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If $b_{12.3} = -0.4$ and $b_{21.3} = -0.9$ then, $r_{12.3}$ is _____.

1. 0.6
2. -0.6
3. 0.36
4. -0.36

Options :

60348947503. 1

60348947504. 2

60348947505. 3

60348947506. 4

Question Number : 58 Question Id : 60348912536 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Coefficient of determination will be between _____ .

1. -1 and 1
2. 0 and 1
3. -1 and 0
4. 0.5 and 1

Options :

60348947507. 1

60348947508. 2

60348947509. 3

60348947510. 4

Question Number : 59 Question Id : 60348912537 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The Histogram is graphical representation of a _____ distribution.

1. Relative frequency
2. Density of frequency
3. continuous frequency
4. cumulative frequency

Options :

60348947511. 1

60348947512. 2

60348947513. 3

60348947514. 4

Question Number : 60 Question Id : 60348912538 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is found in a frequency distribution?

1. Class limits
2. Class intervals
3. Individual observations within each class
4. Class limits and class intervals

Options :

60348947515. 1

60348947516. 2

60348947517. 3

60348947518. 4

Question Number : 61 Question Id : 60348912539 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Consider the following data:

1, 7, 3, 3, 6, 4 the mean for this data is

1. 4
2. 4.8
3. 3
4. $\frac{4}{3}$

Options :

60348947519. 1

60348947520. 2

60348947521. 3

60348947522. 4

Question Number : 62 Question Id : 60348912540 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A distribution of 6 scores has a median of 21. If the highest score increases by 3 points, the median will be_____.

1. Same as 21
2. Increase to 24
3. Decreases to 18
4. Cannot be determined without additional information

Options :

60348947523. 1

60348947524. 2

60348947525. 3

60348947526. 4

Question Number : 63 Question Id : 60348912541 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Variance is a _____.

1. a measure of the average, or central value of a variable
2. a measure of the dispersion of a variable
3. the square root of the standard deviation
4. the sum of the squared deviation of data elements from the mean

Options :

60348947527. 1

60348947528. 2

60348947529. 3

60348947530. 4

Question Number : 64 Question Id : 60348912542 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Data collected through interview is an example of _____ data

1. Primary
2. Secondary
3. Primary and Secondary
4. None of these

Options :

60348947531. 1

60348947532. 2

60348947533. 3

60348947534. 4

Question Number : 65 Question Id : 60348912543 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is the least useful for determining the shape of quantitative data?

1. Stem-and-leaf plot
2. Boxplot
3. Histogram
4. All of these are equally useful for determining the shape.

Options :

60348947535. 1

60348947536. 2

60348947537. 3

60348947538. 4

Question Number : 66 Question Id : 60348912544 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

All of the following are true for bell-shaped data. Which one is not true for highly skewed data as well?

1. The mean and the median are about equal.
2. The range is about 4 to 6 standard deviations.
3. The range is larger than the interquartile range.
4. The Empirical Rule can be used.

Options :

60348947539. 1

60348947540. 2

60348947541. 3

60348947542. 4

Question Number : 67 Question Id : 60348912545 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

It is difficult to interpret whether a distribution deviates from normality when using

1. Histogram
2. box and whisker plot.
3. stem and leaf plot
4. none of these

Options :

60348947543. 1

60348947544. 2

60348947545. 3

60348947546. 4

Question Number : 68 Question Id : 60348912546 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When there are zeroes in the data, which of the following cannot be used

1. Median
2. Mode
3. Geometric mean
4. Arithmetic mean

Options :

60348947547. 1

60348947548. 2

60348947549. 3

60348947550. 4

Question Number : 69 Question Id : 60348912547 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Mean of 20 values is 45. If one of those values is taken as 64 instead of 46, the correct value of mean is___.

1. 44.1
2. 45.9
3. It remains same
4. Cannot be determined with given information

Options :

60348947551. 1

60348947552. 2

60348947553. 3

60348947554. 4

Question Number : 70 Question Id : 60348912548 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The formula to find coefficient of variation is:

1. $\frac{\sigma}{\bar{X}} 100$
2. $\frac{\bar{X}}{\sigma} 100$
3. $\frac{\text{Median}}{\sigma} 100$
4. $\sigma \times 100$

Options :

60348947555. 1

60348947556. 2

60348947557. 3

60348947558. 4

Question Number : 71 Question Id : 60348912549 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Harmonic mean is extremely useful in averaging _____ types of data.

1. Ratios
2. Rates
3. Ratio and Rates
4. None of these

Options :

60348947559. 1

60348947560. 2

60348947561. 3

60348947562. 4

Question Number : 72 Question Id : 60348912550 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following relation is true among the averages AM, GM, HM?

1. $HM \geq GM \geq AM$
2. $AM \geq GM \geq HM$
3. $GM \leq HM \leq AM$
4. $GM \geq HM \geq GM$

Options :

60348947563. 1

60348947564. 2

60348947565. 3

60348947566. 4

Question Number : 73 Question Id : 60348912551 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For a set of two observations AM is 9 and GM is 6, then the HM of the set of observations is

1. 4
2. 9
3. 12
4. cannot be computed with the given information

Options :

60348947567. 1

60348947568. 2

60348947569. 3

60348947570. 4

Question Number : 74 Question Id : 60348912552 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ is the measure of average which can have more than one value for a single set of observations.

1. Median
2. Harmonic Mean
3. Mode
4. Geometric Mean

Options :

60348947571. 1

60348947572. 2

60348947573. 3

60348947574. 4

Question Number : 75 Question Id : 60348912553 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For a distribution the Algebraic sum of deviation from its mean is_____

1. Maximum compared to other deviations
2. Minimum compared to other deviations
3. Zero always
4. Undefined

Options :

60348947575. 1

60348947576. 2

60348947577. 3

60348947578. 4

Question Number : 76 Question Id : 60348912554 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a difference between a bar chart and a histogram?

1. A histogram does not show the entire range of scores in a distribution
2. Bar charts are rectangles, whereas histograms are square
3. There are gaps between bars on a bar chart and no gaps between the bars on a histogram
4. Bar charts represents numbers, whereas histograms represent percentages

Options :

60348947579. 1

60348947580. 2

60348947581. 3

60348947582. 4

Question Number : 77 Question Id : 60348912555 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

An experimental unit in a research work is _____

1. an animal
2. a field plot
3. a group of insects
4. All of these

Options :

60348947583. 1

60348947584. 2

60348947585. 3

60348947586. 4

Question Number : 78 Question Id : 60348912556 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The height of a student is 62 inches. This is an example of _____

1. Qualitative data
2. Categorical data
3. Continuous data
4. Discrete data

Options :

60348947587. 1

60348947588. 2

60348947589. 3

60348947590. 4

Question Number : 79 Question Id : 60348912557 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ measures the strength of the linear relationship between the dependent and the independent variable.

1. Coefficient of correlation
2. Coefficient of determination
3. Y Intercept
4. Residual

Options :

60348947591. 1

60348947592. 2

60348947593. 3

60348947594. 4

Question Number : 80 Question Id : 60348912558 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a simple linear regression analysis of two variables X and Y the quantity that gives the amount by which Y (dependent variable) changes for a unit change in X (independent variable) is called the _____.

1. Coefficient of determination
2. Slope of the regression line
3. Y intercept of the regression line
4. Coefficient of correlation

Options :

60348947595. 1

60348947596. 2

60348947597. 3

60348947598. 4

Question Number : 81 Question Id : 60348912559 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Bowley's coefficient of skewness ranges from _____

1. -1 to 1
2. -3 to 3
3. 0 to 1
4. 0 to 3

Options :

60348947599. 1

60348947600. 2

60348947601. 3

60348947602. 4

Question Number : 82 Question Id : 60348912560 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For a distribution it is found that $Q_1 = 25$, $Q_3 = 70$, the value of coefficient of quartile deviation is _____.

1. 45
2. $45/2$
3. $45/95$
4. None of these

Options :

60348947603. 1

60348947604. 2

60348947605. 3

60348947606. 4

Question Number : 83 Question Id : 60348912561 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the value of standard deviation of a distribution is half of its mean then the numerical value coefficient of variation of the distribution is _____

1. 100 percent
2. Same as mean
3. 50 percent
4. Same as standard deviation

Options :

60348947607. 1

60348947608. 2

60348947609. 3

60348947610. 4

**Question Number : 84 Question Id : 60348912562 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

For a skewed distribution, the values of mean and median are 4 and 4.6 respectively, then the value of mode from empirical relation is _____

1. 4.3
2. 5.8
3. 4
4. 4.6

Options :

60348947611. 1

60348947612. 2

60348947613. 3

60348947614. 4

**Question Number : 85 Question Id : 60348912563 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 1 Wrong Marks : 0

The class frequencies of a distribution with 5 class intervals are 3, 6, 12, 8, 5. The respective less than cumulative frequencies are _____

1. 3/34, 6/34, 12/34, 8/34, 5/34
2. 3, 9, 21, 29, 34
3. 34, 31, 25, 13, 5
4. Does not exist in this case.

Options :

60348947615. 1
60348947616. 2
60348947617. 3
60348947618. 4

Question Number : 86 Question Id : 60348912564 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A frequency distribution has mean of 25KGs, mode of 20KGs and standard deviation of 3KGs , its coefficient of skewness is _____.

1. 5/3
2. 45/3
3. 45/3 KGs
4. -5/3 KGs

Options :

60348947619. 1
60348947620. 2
60348947621. 3
60348947622. 4

Question Number : 87 Question Id : 60348912565 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Frequency density is the ratio of class frequency to _____.

1. Total frequency
2. Mid-point of CI
3. Class width
4. Range

Options :

60348947623. 1

60348947624. 2

60348947625. 3

60348947626. 4

Question Number : 88 Question Id : 60348912566 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The GM of 3 values 2, 4 and 8 is _____

1. 4.66
2. $64/3$
3. 4
4. Cannot be computed as all are positive

Options :

60348947627. 1

60348947628. 2

60348947629. 3

60348947630. 4

Question Number : 89 Question Id : 60348912567 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which measure is not affected by change of origin and scale?

1. Mean
2. Standard deviation
3. correlation coefficient
4. all of these

Options :

60348947631. 1

60348947632. 2

60348947633. 3

60348947634. 4

Question Number : 90 Question Id : 60348912568 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a simple linear regression analysis, the correlation coefficient (r) and the slope (m or regression coefficient) have the same sign.

1. always true
2. sometimes true
3. never true
4. cannot be said exactly

Options :

60348947635. 1

60348947636. 2

60348947637. 3

60348947638. 4

Question Number : 91 Question Id : 60348912569 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The regression coefficient may assume any value between

1. 0 and 1
2. $-\infty$ and ∞
3. -1 and 0
4. -1 and 1

Options :

60348947639. 1

60348947640. 2

60348947641. 3

60348947642. 4

Question Number : 92 Question Id : 60348912570 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the dispersion of a set of data is less, the standard deviation is:

1. Large
2. Zero
3. Small
4. Negative

Options :

60348947643. 1

60348947644. 2

60348947645. 3

60348947646. 4

Question Number : 93 Question Id : 60348912571 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If there are ten values each equal to 10, then standard deviation of these values is:

1. 100
2. 20
3. 10
4. 0

Options :

60348947647. 1

60348947648. 2

60348947649. 3

60348947650. 4

Question Number : 94 Question Id : 60348912572 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a biology experiment a number of cultures were grown in the laboratory. The numbers of bacteria X (in millions) and their ages Y (in days), are given below.

Age (x)	1	2	3	4	5
Number of bacteria(y)	34	106	135	181	192

Using the data we can say that the coefficient of Correlation coefficient between X and Y is _____.

1. Perfectly positive
2. Perfectly negative
3. Positive
4. Negative

Options :

60348947651. 1

60348947652. 2

60348947653. 3

60348947654. 4

Question Number : 95 Question Id : 60348912573 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The following table shows the wage distribution of employees in a certain factory

Weekly	20-40	40-60	60-80	80-100	100-120
--------	-------	-------	-------	--------	---------

wage(in 00's of Rs):

No of	8	12	20	30	15
-------	---	----	----	----	----

employees:

The CI where the median wage lies is _____

1. 40 – 60
2. 60 – 80
3. 80 – 100
4. Median does not exist for this distribution

Options :

60348947655. 1

60348947656. 2

60348947657. 3

60348947658. 4

Question Number : 96 Question Id : 60348912574 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The following is the distribution of duration of Sedation induced by a dose of a Sedative to 100 persons.

Duration	1-2	2-3	3-4	4-5	5-6	6-7	7-8
----------	-----	-----	-----	-----	-----	-----	-----

(in hrs):

Number	3	20	35	23	12	5	1
--------	---	----	----	----	----	---	---

of persons:

The mode of the distribution lies in the class interval

1. 2 – 3
2. 3 – 4
3. 4 – 5
4. 5 – 6

Options :

60348947659. 1

60348947660. 2

60348947661. 3

60348947662. 4

Question Number : 97 Question Id : 60348912575 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The measure which tells, 'on an average how far each data point is from their mean' is _____

1. Mean deviation from mean
2. Average deviation from median
3. Mean deviation from mode
4. None of these

Options :

60348947663. 1

60348947664. 2

60348947665. 3

60348947666. 4

Question Number : 98 Question Id : 60348912576 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If a distribution is positively skewed, then which of the following is true?

1. The median will be smaller than the mode.
2. The median will be larger than the mode.
3. Mode is larger than mean
4. None of these is true

Options :

60348947667. 1

60348947668. 2

60348947669. 3

60348947670. 4

Question Number : 99 Question Id : 60348912577 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Given below are four sets of observations. Which set has the minimum variation?

1. 46, 48, 50, 52, 54
2. 30, 40, 50, 60, 70
3. 40, 50, 60, 70, 80
4. 48, 49, 50, 51, 52.

Options :

60348947671. 1

60348947672. 2

60348947673. 3

60348947674. 4

Question Number : 100 Question Id : 60348912578 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If you are told that a large population with a mean of 25 and a variance of 0, what must you conclude?

1. There is only one element repeated for a maximum number of times in the population.
2. There are no repeated elements in the population.
3. All the elements in the population are 25.
4. There is computational mistake while calculating variance

Options :

60348947675. 1

60348947676. 2

60348947677. 3

60348947678. 4