

pol212 List of Questions

Latex formatted questions may not properly render

Q1 A statistical experimnt in which the results of the experiment are not subject to chance if repeatedly severally under the same condition is called _____

- ☐ Random
- ☐ Randomised
- ☒ Deterministic
- ☐ Categorical

Q2 The probability of an event that can be obtained from an already existing result, from what is likely to happen or from already known information is termed

- ☐ Empirical
- ☒ Theoretical
- ☐ Efficiency
- ☐ Futuristic

Q3 When an experiments are actually carried out under the same condition through which an outcome is obtained. The probability of such an event is called

- ☒ Experimental Statistics
- ☐ Theoretical
- ☐ Practical
- ☐ Efficiency

Q4 The two types that probability cab be classified are

- ☐ Numerical and Classical
- ☐ Alphabetical and Empirical
- ☒ Empirical and Classical
- ☐ Decimal and Expermental

Q5 Write down the sample space for the experiments. Toss a coin 3 times and observe the total number of heads

- ☐ (1,2,3,4)
- ☐ (0,1,2,3)
- ☐ (1,2,3)
- ☐ (0,1,2,4)

Q6 If two fair dice are rolled together what is the probability of having the same number appear on the two fair dices?

- ☐ 1/160
- ☐ 3/160
- ☐ 4/166
- ☒ None of the options

Q7 In how many ways can a family of 9 divide itself into 3 groups so that each group contains 3 persons?

- ☐ 100ways
- ☐ 252ways
- ☐ 356ways
- ☒ 280ways

Q8 A box contains 10 green, 8 yellow and 5 red marbles. If two marbles are picked at random, what is the probability that one is green and one is red.

- ☐ 50/252
- ☐ 50/233
- ☐ 50/243
- ☐ 50/253

Q9 There are basically two methods for assigning probabilities to events. One of these methods is

- ☐ non-Relative frequency approach
- ☐ Relative approach
- ☐ Frequency approach
- ☐ Relative frequency approach

Q10 An Experiment in which the results are always subject to chances and may change even if the experiment is repeated under the same condition is known as

- ☐ Deterministic
- ☐ Expected
- ☐ Categorical
- ☐ Random

Q11 A ballot box containing 12 male voter's cards and another box containing 100 female voter's cards. Find the number of ways of selecting 5 male voter's cards.

- ☐ 256 ways
- ☐ 792 ways
- ☐ 1011 ways
- ☐ 56 ways

Q12 Evaluate $n! + 0! / 2$

- ☐ 0
- ☐ 12
- ☐ 124
- ☐ 1

Q13 In how many ways can the acronym NOUN be written

- ☐ 14
- ☐ 12
- ☐ 124
- ☐ 4

Q14 Find the value of $2! + 5!$

- ☐ 240
- ☐ 120
- ☐ 122
- ☐ 124

Q15 A branch of _____ that deals with analysis and interpretation of numerical data in terms of sample and population is called statistics

- ☐ Algebra
- ☐ Geometrics
- ☐ Geography

- ☐ Mathematics

Q16 Which of the following is a source of funding for scientific research

- ☐ International Organizations
- ☐ Governments
- ☐ Corporate Organizations
- ☐ All the options

Q17 The primary purpose for _____ is to discover, interpret develop methods and systems for the growth of knowledge.

- ☐ Euronautic
- ☐ Applied Research
- ☐ Basic Statistics
- ☐ Mathematics

Q18 Hybrid sampling is a method that combines

- ☐ Random and non-random procedures
- ☐ Combination and Permutation techniques
- ☐ Population and survey
- ☐ None of the Options

Q19 One of the attributes of statistical inquires and sampling is that it:

- ☐ Delay time
- ☐ Enables researcher get data easily
- ☐ Provides for 100% confidence level
- ☐ No time to calculate data

Q20 In a Political group of 12 members the probability of picking a number from any one of the six geo-political zones in Nigeria is $\frac{2}{3}$. If some members are to represent the group in a National meeting, find the probability that 8 members are chosen.

- ☐ 0.5
- ☐ 0.07
- ☐ 0.0471
- ☐ 0.2471

Q21 The part of statistics that deals with calculation of mean, median, standard deviation, range proportions is called _____

- ☐ Experimental Statistics
- ☐ Inferential
- ☐ Descriptive
- ☐ Quasi

Q22 The totality of observations of a particular group is called

- ☐ Sample
- ☐ Data
- ☐ Population
- ☐ Parameter

Q23 Which of the following is not a categorised data

- ☐ Gender
- ☐ academic qualifications

- ☐ height
- ☐ Marital status

Q24 The pieces of information that represent the qualitative or quantitative attributes of a variable or set of variables is called _____

- ☐ Statistics
- ☐ Variable
- ☐ Population
- ☐ Data

Q25 _____ can be define as a subject that deals with collection, analysis and interpretation of data in terms of sample and population.

- ☐ Statistic
- ☐ Statistics
- ☐ Domain
- ☐ Computer

Q26 During the 1st semester in the Department of Political Science, National Open University of Nigeria, 18 Students took Pols 101, 25 took Pols 102, 23 took Pol103, 9 took Pol 101 and Pol 102, 10 took Pol 102 and Pol 103 and 6 took Pol 101 and Pol 103. If there were 50 Students and 5 students did not take any three courses. How many Students took all the three courses.

- ☐ 4
- ☐ 3
- ☐ 7
- ☐ 2

Q27 If the universal set U is given by $U = \{a,b,c,d,e,f,g,h\}$ and the sets $A = \{a,d,c\}$, $B = \{b,c,d,f,h\}$, find $(A \cap B)$

- ☐ $\{a,b,c,f,g,h\}$
- ☐ $\{a,c,d\}$
- ☐ $\{a,h,f\}$
- ☐ $\{a,f,c\}$

Q28 A set 'U' contains 6 elements, how many subsets can be formed from set U

- ☐ 16
- ☐ 32
- ☐ 128
- ☐ Invinity

Q29 Examples of primary sources of data collection is/are

- ☐ Newspapers publications
- ☐ Bi-annual publication
- ☐ Interview and Questionnaires
- ☐ Observation

Q30 Which of the following is/are example of secondary source of data collection

- ☐ Interview
- ☐ Annual and Quarterly publications
- ☐ Questionnaires
- ☐ Laboratory tests

Q31 When data consisting of n members are arranged in order of magnitude, the middle values or member is called

- ☐ Mode
- ☒ Median
- ☐ Average
- ☐ Range

Q32 The mean of the following set of number; 20,24,20,35,43,27,40,35,36 and 20 is

- ☐ 55
- ☒ 30
- ☐ 21
- ☐ 33

Q33 Given a set of raw data: 2,3,2,1,4,4,1,1,3,2,5,3,5,1,5,1,4,2,3,0,4,1,0,3,5,2,5,0,4,1,4,0,5,2,3,0,4,4,1,2; what is the frequency of data 3

- ☐ 2
- ☐ 7
- ☐ 4
- ☒ 6

Q34 A Student with N600 pocket money was spent on the following; Book N50, Pen N80, Maths Set N270, Bag N150, Food N50; the angles that pen and food represent on a pie chart are

- ☒ 48 degree and 30 degree
- ☐ 20 degree and 34 degree
- ☐ 44 degree and 21 degree
- ☐ All the options

Q35 During the 1st semester in the Department of Political Science, National Open University of Nigeria, 18 Students took Pals 101, 25 took Pals 102, 23 took Pol103, 9 took Pol 101 and Pol 102, 10 took Pol 102 and Pol 103 and 6 took Pol 101 and Pol 103. If there were 50 Students and 5 students did not take any three courses. How many Students took POL 102 and POL 103 only

- ☐ 3
- ☐ 4
- ☒ 6
- ☐ 12

Q36 Calculate the standard deviation of the following set of numbers:

148,146,150,154,156,158,160,162,164,166,168,170

- ☐ 2.33
- ☐ 4.32
- ☐ 7.44
- ☒ 7.48

Q37 Calculate the range of the following set of numbers: -5,-4,0,18,22,17,30

- ☒ 34
- ☐ 21
- ☐ 30
- ☐ 33

Q38 Find the third quartile in the following data set; 22,31,20,24,27,55

- ☒ 22

- ☐ 19
- ☐ 33
- ☐ 29

Q39 In a set of data, the value which occur most frequently is called the

- ☐ Average
- ☐ Mode
- ☐ Frquency
- ☐ Range

Q40 Find the median of 18,15,24,12,58,42,37,8,15,21,16

- ☐ 11
- ☐ 13
- ☐ 19
- ☐ 18

Q41 The scores of 5 students in an examination are: 6, 5, 8, 7 and 4. Find the variance

- ☐ 2
- ☐ 3
- ☐ 2.5
- ☐ 2.2

Q42 The difference between the largest and smallest scores of ungrouped data is the◆?◆◆?◆

- ☐ Range
- ☐ Median
- ☐ Mode
- ☐ Mean

Q43 All qualitative variables are measured on__Scale

- ☐ Ordinal
- ☐ Nominal
- ☐ Interval
- ☐ Ration and interval statistics

Q44 The two types of statistics are

- ☐ Numerical and symbolic statistics
- ☐ Random and stratified statistics
- ☐ Descriptive and inferential statistics
- ☐ Ration and interval statistics

Q45 The scientific method for collection, summarisation, presentation, analysis and interpretation of data is called

- ☐ Biostatistics
- ☐ Chemical Pathology
- ☐ Investigative Science
- ☐ Statistics

Q46 A pair of dice is tossed. Find the probability of getting a total of 10

- ☐ 1 divided by 12
- ☐ 1 divided by 6

- ☐ 3 divided by 16
- ☐ 3 divided by 17

Q47 The UN recommends that census should seek the following information but one

- ☐ Age
- ☐ Nationality
- ☐ Sex
- ☐ Weight

Q48 In a census, the approach whereby each individual is counted at the place he is found at the time of the exercise is called

- ☐ De jure
- ☐ De facto
- ☐ De jury
- ☐ Devidendi

Q49 Coefficient of variation is equal to

- ☐ (Arithmetic mean X 100)/Standard Deviation
- ☐ (Standard mean X 100)/Arithmetic Deviation
- ☐ (Variance X 100)/Standard Deviation
- ☐ (Standard Deviation X 100)/Arithmetic mean

Q50 The scores of 5 students in an examination are 6, 5, 8, 7 and 4. Find the standard deviation

- ☐ Square root of 2
- ☐ Square root of 3
- ☐ Square root of 2.5
- ☐ Square root of 2.2

Q51 In a study of a voting pattern in an election, find the mean of the following votes casted for different political parties: 19, 24, 12, 8, 20, 23, 22, 16, 15, 24, 27, 25, 24, 18, 3, 21, 10, 9, 26, and 25.

- ☐ 20.5
- ☐ 20
- ☐ 18.5
- ☐ 24

Q52 Range, inter-quartile range, variance, standard deviation and co-efficient of relative variation are examples of measure of

- ☐ Central tendency
- ☐ Variability
- ☐ Average
- ☐ Peripheral tendency

Q53 __ is a technical procedure by which data are categorised

- ☐ Coding
- ☐ Naming
- ☐ Categorisation
- ☐ Summation

Q54 A single member of a population is known as

- ☐ Element

- ☐ Family
- ☐ Coordinate
- ☐ None of the options

Q55 Some challenges against accurate head count are the followings but one

- ☐ Organisational
- ☐ Experimental
- ☐ Attitudinal
- ☐ Technical

Q56 One of the followings is not an advantage of interview

- ☐ It can be used with all segments of the population
- ☐ It yields a better sample of the general population
- ☐ It yields a higher return compared to mail questionnaire
- ☐ It requires much less skill to administer

Q57 __ Is a government data collection system in which the demographic and socio-economic characteristics of all or a part of the population are continuously recorded

- ☐ Civil register
- ☐ Statistics
- ☐ Data system
- ☐ Population register

Q58 One of the attitudinal problems encountered during census exercise is

- ☐ Poor logistics
- ☐ Politicisation of the exercise, leading to inflation
- ☐ Lack of up to date maps
- ☐ Inaccessible road

Q59 Calculate the median score of the 20 Political Science students that obtained the following marks in an examination: 60, 69, 56, 75, 57, 65, 54, 51, 47, 65, 45, 38, 61, 44, 36, 48, 54, 25, 33, 37

- ☐ 52.5
- ☐ 53.5
- ☐ 54.5
- ☐ 55.5

Q60 Advantages of questionnaire include all but one of the followings

- ☐ It can be sent through e-mail
- ☐ It is impersonal
- ☐ Requires less skill to administer than an interview
- ☐ Yields a much better sample of the general population

Q61 In a broad sense, __ is a diagram that shows relationships between numbers

- ☐ Statistics
- ☐ Hypothesis figures
- ☐ Graph
- ☐ Curve

Q62 Another name for Cumulative Frequency Curve is

- ☐ Ogive graph

- ☐ Cumulative graphy
- ☐ Frequency graph
- ☐ Ogive curve frequency

Q63 An advantage of frequency polygon over histogram is that:

- ☐ It is easy to calculate
- ☒ Easy to compare two distributions
- ☐ It is more detail
- ☐ None of the options

Q64 Find the class mark of a population whose class intervals are x_1 to x_2 .

- ☐ $X_1 - X_2/2$
- ☒ $X_1 + X_2/2$
- ☐ $X_1/X_2/2$
- ☐ $(X_1)(X_2)/2$

Q65 A graph whose class interval is marked on the horizontal axis and the corresponding class frequency on the vertical axis is called _____

- ☐ Pictorial
- ☐ Pie Chart
- ☒ Histogram
- ☐ Bar Chart

Q66 Some of the functions of statistics in the society may be one of the followings

- ☐ Forecasting
- ☐ Evaluation
- ☐ Estimation
- ☒ All the options

Q67 The values of may be discrete or continuous

- ☐ Data
- ☒ Variable
- ☐ Sample
- ☐ Population

Q68 Any piece(s) of information that represents the qualitative attributes of a variable(s) is called ?

◆◆◆◆◆

- ☒ Data
- ☐ Intelligence Quotience
- ☐ Cybernetics
- ☐ All the options

Q69 A branch of __That deals with analysis and interpretations of numerical data in terms of sample and population is called statistics

- ☐ Algebra
- ☐ Geometrics
- ☐ Geography
- ☒ Mathematics

Q70 Politics is a Social Science because it uses for analysis

- ☐ Statistical tools
- ☐ Modern tools
- ☐ Laboratory tests
- ☐ All the options

Q71 If $A = \{a, b, c, d, e, f, g, h\}$, the cardinality of the elements is $\diamond\diamond\diamond\diamond\diamond\diamond\diamond\diamond$.

- ☐ Data
- ☐ c
- ☐ 8
- ☐ 4

Q72 A set without any element is called

- ☐ Null
- ☐ Indiscrete
- ☐ Discrete
- ☐ Explanatory

Q73 If $A = \{a, b, c, d, e, f\}$ and $B = \{c, d, e\}$, then, it is correct to conclude that B is $\diamond\diamond\diamond\diamond\diamond\diamond\diamond$ of A

- ☐ Equal to
- ☐ Contained in
- ☐ A subset of
- ☐ b and c

Q74 In a social research, the act of reading through books by scholars on the subject matter is called

- ☐ Internalisation
- ☐ Literature review
- ☐ Peer review
- ☐ Statement of problem

Q75 Lack of __ may be one of the limitations of statistics

- ☐ Records
- ☐ Exactitude
- ☐ Tools of analysis
- ☐ None of the options

Q76 __ is another measure of partitioning an array of data into hundred equal groups

- ☐ Bar chart
- ☐ Histogram
- ☐ Median
- ☐ Percentile

Q77 If $A=46$, $B=34$ and $C=40$; What angle would represent B on a pie chart?

- ☐ 101.9 degrees
- ☐ 34 degrees
- ☐ 46 degrees
- ☐ 40 degrees

Q78 The symbol $\diamond\diamond\diamond\diamond$ means

- ☐ Algebraic expression
- ☐ Summation of population

- ☐ Summation of frequency
- ☐ Frequency modulation

Q79 Which of the following options is correct if sets $A=\{2,5,7,8,9\}$ and $B=\{1,3,5,7\}$

- ☐ $A \cup B = 5,7$
- ☐ $A \cap B = 5,7$
- ☐ $A \cap B = 0$
- ☐ All of the options

Q80 Two sets X and Y are said to be __ If they have no elements in common

- ☐ Disjointed
- ☐ Intersected
- ☐ Union
- ☐ None of the options