eExam Question Bank

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Question Type	Question	A	B	C	D
FBQ	The major challenge against accurate head count apart from funding and logistics is	Experimental			
FBQ	A pair of dice is tossed. Find the probability of getting a total of 10	1 divided by 12			
FBQ	The recommend that census should seek Age, Nationality, Sex and Weight is made by	International organisation			
FBQ	De facto is the approach whereby each individual is counted at the place he is found at the time of __exercise	Census	Head count		
FBQ	Coefficient of variation is equal to	(Standard Deviation X 100)/Arithmetic mean	Standard deviation multiply be 100, divided by Arithmetic mean		
FBQ	The scores of 5 students in an examination are 6, 5, 8, 7 and 4. Find the standard deviation	Square root of 2.5			
FBQ	The scores of 5 students in an examination are: 6, 5, 8, 7 and 4. Find the variance	2			
FBQ	The difference between the largest and smallest scores of ungrouped data is the	Range			
FBQ	All qualitative variables are measured on _scale	Nominal			
FBQ	The two types of statistics are	Descriptive and inferential	Inferential, Descriptive		
FBQ	The scientific method for collection, summarisation, presentation, analysis and interpretation of data is called	Statistics			
FBQ	The biggest financial in scientific research funding is	International organisation			
FBQ	The primary purpose for is to discover, interpret develop methods and systems for the growth of knowledge	Applied Research			
FBQ	Hybrid sampling is a method that combines procedure	Random	Non-random		
FBQ	One of the attributes of statistical inquires and sampling is that it enable researcher get __easily	Data			

☐						
☐	FBQ	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 2/3. If some members are to represent the group in a National meeting, find the probability that 8 members are chosen	0.0471			
☐	FBQ	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	792 ways			
☐	FBQ	Evaluate n! + 0! / 2	1			
☐	FBQ	In how many ways can the acronyms NOUN be written	12			
☐	FBQ	Find the value of 2! + 5!	122			
☐	FBQ	A branch of __that deals with analysis and interpretation of numerical data in terms of sample and population is called statistics	Mathematics			
☐	FBQ	Calculate the standard deviation of the following set of numbers: 148,146,150,154,156,158,160,162,164,166,168,170	7.48			
☐	FBQ	In how many ways can a family of 9 divide itself into 3 groups so that each group contains 3 persons	280ways			
☐	FBQ	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	50/253			
☐	FBQ	There are basically two methods for assigning probabilities to events. One of these methods is	Relative frequency approach			
☐	FBQ	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	Random			
☐	FBQ	A statistical experiemnt in which the results of the experiment are not subject to chance if repeatedly severally under the same condition is called	Deterministic			
☐	FBQ	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	Theoretical	Theory		
☐	FBQ	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			
☐	FBQ	The two types into which probability can be classified are	Empirical and Classical	Empirical, classical		
☐	FBQ	Write down the sample space for the experiments. Toss a coin 3 times and observe the total number of heads	(0 1 2 3)			
☐	FBQ	Calculate the standard deviation of the following set of numbers: 148,146,150,154,156,158,160,162,164,166,168,170	7.48			
☐	FBQ	If A=46, B=34 and C=40; What angle would represent B on a pie chart	101.9 degrees			

	FBQ	The symbol $\sum f$ means _____	Summation of frequency			
	FBQ	If sets A={2,5,7,8,9} and B={1,3,5,7}. Then AnB is _____	5 7	5 and 7		
	FBQ	Two sets X and Y are said to be _____ _if they have no elements in common	Disjointed			
	FBQ	If A= {a,b,c,d,e,f, g, h}, the cardinality of the elements is _____	8			
	FBQ	A set without any element is called _____	Null			
	FBQ	If A= {a,b,c,d,e,f} and B={c,d,e}, then, it is correct to conclude that B is _____ A	Equal to	A subset of		
	FBQ	In a social research, the act of reading through books by scholars on the subject matter is called _____ _review	Literature			
	FBQ	Lack of _____ _may be one of the limitations of statistics	Exactitude			
	FBQ	Some of the functions of statistics in the society may be _____	Forecasting	Estimation		
	FBQ	The values of _____ __may be discrete or continuous	Variable			
	FBQ	Any piece(s) of information that represents the qualitative attributes of a variable(s) is called _____	Data			
	FBQ	A branch of _____ _that deals with analysis and interpretations of numerical data in terms of sample and population is called statistics	Mathematics			
	FBQ	Politics is a Social Science because it uses _____ _tools for analysis	Statistical tools			
	FBQ	In a broad sense, _____ _is a diagram that shows relationships between numbers	Graph			
	FBQ	Another name for Cummulative Frequency Curve is _____	Ogive graph			
	FBQ	An advantage of frequency polygon over histogram is that it is easy to compare _____	Two distributions	2 distributions		
	FBQ	Find the class mark of a population whose class intervals are x1 to x2 _____	X1+X2/2			
	FBQ	Find the third quartile in the following data set; 22,31,20,24,27,55 _____	29			
	FBQ	Five delegates out of 6 women and 7 men are to represent an electoral body at a National election. In how many ways can the delegates be selected if it must consist of 2 women and 3 men _____	2100			
	FBQ	A folder contains 7 blue biros, 6 red biros and 3 black biros without replacement, find the probability that the three biros are of different colour _____	0.15			
	FBQ	In a single toss of three fair coins. What is the probability of having exactly 2 tails _____	3 divided by 8	0.375		

	FBQ	If the probability of a pregnant woman giving birth to a male child is 0.25, what is the probability that the child will be a girl	0.75			
	FBQ	What is the third quatile of the following set of data 16, 25, 14, 18, 21, 23, 19, 18, 21, 49	23			
	FBQ	In an objective test marked out of 40, the marks scored by 40 student are given in this table Marks % 1 - 5 6 - 10 11 - 20 21 - 30 31 - 35 36 - 40. Calculate the mean, using an assumed mean of 21 No. of Students 2 7 12 8 5 6	21.125			
	FBQ	Find the class mark in a grouped frequency table with the class interval 40 - 49	44.5			
	FBQ	One of the class interval for a grouped frequency table is 60 - 66, what is the class boundary for this class	59.5 - 66.5			
	FBQ	Given a set of raw data 2, 3, 2, 1, 4, 4, 1, 1, 1, 3, 2, 2, 2, 5, 0, 0, 0, 1. The date with the highest frequency is	2			
	FBQ	In a particular week, the number of student that enrols at various school at the National Open University of Nigeria is as follow; School of education 150; School of Arts and Social Sciences 360; School of Law 220; School of Science and Technology 250; School of management 600; School of Post-graduate Studies 420. If the information is represented on a pie chart, what angle will the School of Arts & Social Sciences be represented with	64.8o			
	FBQ	p <=> q is a statemnent obtaind by using 'if and only if' connective to one simple statements p and q. When is the resulting statement p <=> q True	When both p and q are true both p and q are false			
	FBQ	When a disfunction (OR) connective is used between two statements p, q, the statement p OR q is only false when	p is false q is false	p and q are false		
	FBQ	p AND q is a compound statement formed from two simple statements p and q respectively. What is the statement p ^ q	When both p and q are true			
	FBQ	Mode is the most __in a sample population	occurrence	hshsshsh		
	FBQ	In a class of 181 student, 102 offers POL 212, 64 offer BHM 206, 58 offer POL 202 and all the students take at least one of the subjects. 20 offer POL 212 and BHM 206, 15 offer POL 212 and POL 202, 18 offer BHM 206 and POL 212. Find how many students offer POL 202 only	35	hshsshsh		
	FBQ	In a class of 181 student, 102 offers POL 212, 64 offer BHM 206, 58 offer POL 202 and all the students take at least one of the subjects. 20 offer POL 212 and BHM 206, 15 offer POL 212 and POL 202, 18 offer BHM 206 and POL 212. Find how many students offer BHM 206 only	36	hshsshsh		
	FBQ	In a class of 181 student, 102 offers POL 212, 64 offer BHM 206, 58 offer POL 202 and all the students take at least one of the subjects. 20 offer POL 212 and BHM 206, 15 offer POL 212 and POL 202, 18 offer BHM 206 and POL 212. Find how many students offer POL 212 only	77	hshsshsh		
	FBQ	In a class of 181 student, 102 offers POL 212, 64 offer BHM 206, 58 offer POL 202 and all the students take at least one of the subjects. 20 offer POL 212 and BHM 206, 15 offer POL 212 and POL 202, 18 offer BHM 206 and POL 212. Find how many students offer BHM 206 and POL 202 only	8	hshsshsh		

	FBQ	In a class of 181 student, 102 offers POL 212, 64 offer BHM 206, 58 offer POL 202 and all the students take at least one of the subjects. 20 offer POL 212 and BHM 206, 15 offer POL 212 and POL 202, 18 offer BHM 206 and POL 212. Find how many students offer BHM and POL 212 only	10			
	FBQ	In a class of 181 student, 102 offers POL 212, 64 offer BHM 206, 58 offer POL 202 and all the students take at least one of the subjects. 20 offer POL 212 and BHM 206, 15 offer POL 212 and POL 202, 18 offer BHM 206 and POL 212. Find how many students offer all the three subjects	10			
	FBQ	If the Universal Set U is given by U = {a, b, c, d, e, f, h, h} and the sets A = {a, b, c}, B = {b, c, d, f, h}, C = {b, c, d, e}; find (AnB)	{a d e f g h}	hshsshsh		
	FBQ	Which of the following Set is a infinite Set A = {x : 2 ≤ x ≤ 12, x is an integer} B = {x: x is real}, C = {x: 3 < x < 6, x is rational number}, D = {x: x is complex number}	{x : 2 ≤ x ≤ 12 x is an integer}	hshsshsh		
	FBQ	How many subsets has a set consisting 4 elements	16	hshsshsh		
	FBQ	The cardinality of the union of Sets A, B, C, if A = {2, 3, 5, 7, 11, 13}, B = {0, 1, 9,} and C = {2, 4, 6, 8, 10, 12, 14} is	15	hshsshsh		
	MCQ	When data consisting of n members are arranged in order of magnitude, the middle values or member is called__	Mode	Median	Average	Range
	MCQ	The mean of the following set of number; 20,24,20,35,43,27,40,35,36 and 20 is__	55	30	21	33
	MCQ	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
	MCQ	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 and 34 degrees	44 and 21 degrees	All the options
	MCQ	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 POL 102 and POL 103 only__	3	4	6	12
	MCQ	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 101and 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
	MCQ	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 (AnB)__	(a,b,c,f,g,h)	(a,c,d)	(a,h,f)	(a,f,c)
	MCQ	Find the third quartile in the following data set; 22,31,20,24,27,55__	22	19	33	29
	MCQ	Examples of primary sources of data collection are__	Newspapers publications	Bi-annual publication	Interview and Questionnaires	Observation
	MCQ	Which of the following is/are example of secondary source of data collection__	Interview	Annual and Quarterly publications	Questionnaires	Laboratory tests
	MCQ	The part of statistics that deals with calculation of mean, median, standard devaition, range proportions is called___	Experimental Statistics	Inferential	Descriptive	Quasi

	MCQ	The totality of observations of a particular group is called__	Sample	Data	Population	Parameter
	MCQ	Which of the following is not a categorised data__	Gender	Academic qualifications	Height	Marital status
	MCQ	The pieces of information that represent the qualitative or quantitative attributes of a varible or set of variables is called____	Statistics	Variable	Population	Data
	MCQ	Find the median of 18,15,24,12,58,42,37,8,15,21,16__	11	13	19	18
	MCQ	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 questionnaaire	It requires much less skill to administer
	MCQ	In a set of data, the value which occur most frequently is called the__	Average	Mode	Frquency	Range
	MCQ	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
	MCQ	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
	MCQ	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 bettter sample of the general population
	MCQ	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
	MCQ	Range, inter-quartile range, variance, standard deviation and co-efficient of relative variation are examples of measure of__	Central tendency	Variability	Average	Peripheral tendency
	MCQ	Calculate the range of the following set of numbers: -5,-4,0,18,22,17,30__	34	21	30	33
	MCQ	A single member of a population is known as__	Element	Family	Coordinate	None of the options
	MCQ	Some challenges against accurate head count are the followings but one__	Organisational	Experimental	Attitudinal	Technical
	MCQ	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
	MCQ	The UN recommends that census should seek the following information but one__	Age	Nationality	Sex	Weight
	MCQ	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
	MCQ	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
	MCQ	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
	MCQ	The scores of 5 students in an examination are: 6, 5, 8, 7 and 4. Find the variance__	2	3	2.5	2.2
	MCQ	The difference between the largest and smallest scores of ungrouped data is the__	Range	Median	Mode	Mean

	MCQ	All qualitative variables are measured on__ scale	Ordinal	Nominal	Interval	Ration and interval statistics
	MCQ	The two types of statistics are__	Numerical and symbolic statistics	Random and stratified statistics	Descriptive and inferential statistics	Ration and interval statistics
	MCQ	The scientific method for collection, summarisation, presentation, analysis and interpretation of data is called__	Biostatistics	Chemical Pathology	Investigative Science	Statistics
	MCQ	Which of the following is a source of funding for scientific research__	International Organizations	Governments	Corporate Organizations	All the options
	MCQ	The primary purpose for ____is to discover, interpret develop methods and systems for the growth of knowledge.	Euronautic	Applied Research	Basic Statistics	Mathematics
	MCQ	Hybrid sampling is a method that combines__	Random and non-random procedures	Combination and Permutation techniques	Population and survey	None of the Options
	MCQ	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
	MCQ	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 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
	MCQ	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
	MCQ	Evaluate n! + 0! / 2__	0	12	124	1
	MCQ	In how many ways can the acronyms NOUN be written__	14	12	124	4
	MCQ	Find the value of 2! + 5!__	240	120	122	124
	MCQ	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
	MCQ	Calculate the standard deviation of the following set of numbers: 148,146,150,154,156,158,160,162,164,166,168,170__	2.33	7.48	7.44	5.6
	MCQ	In how many ways can a family of 9 divide itself into 3 groups so that each group contains 3 persons__	280ways	252ways	356ways	230ways
	MCQ	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
	MCQ	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
	MCQ	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	Catetegorical	Random
	MCQ	A statistical experiemnt 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
	MCQ	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

	MCQ	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
	MCQ	The two types that probability cab be classified are__	Numerical and Classical	Alphabetical and Empirical	Empirical and Classical	Decimal and Expermental
	MCQ	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)
	MCQ	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
	MCQ	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
	MCQ	The symbol $\sum f$ means__	Algeraic expression	Summation of population	Summation of frequency	Frequency modulation
	MCQ	Which of the following options is correct if sets A={2,5,7,8,9} and B= {1,3,5,7}__	AuB=5,7	AnB=5,7	AnB=0	All of the options
	MCQ	Two sets X and Y are said to be__if they have no elements in common	Disjointed	Intersected	Union	None of the options
	MCQ	If A= {a,b,c,d,e,f, g, h}, the cardinality of the elements is__	5	9	8	4
	MCQ	A set without any element is called__	Null	Indiscrete	Discrete	Explanatory
	MCQ	If A= {a,b,c,d,e,f} and B={c,d,e}, then, it is correct to conclude that B is__ A	Equal to	Contained in	A subset of	A and C
	MCQ	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
	MCQ	Lack of__may be one of the limitations of statistics	Records	Exactitude	Tools of analysis	None of the options
	MCQ	Some of the functions of statistics in the society may be one of the followings__	Forecasting	Sensitisation	Estimation	Options A and C
	MCQ	The values of__may be discrete or continuous	Data	Variable	Sample	Population
	MCQ	Any piece(s) of information that represents the qualitative attributes of a variable(s) is called__	Data	Intelligence Quotience	Cybernetics	All the options
	MCQ	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
	MCQ	Politics is a Social Science because it uses__for analysis	Statistical tools	Modern tools	Laboratory tests	All the options
	MCQ	In a broad sense,__is a diagram that shows relationships between numbers	Statistics	Hypothesis figures	Graph	Curve
	MCQ	Another name for Cummulative Frequency Curve is__	Ogive graph	Cummulative graphy	Frequency graph	Ogive curve frequency
	MCQ	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
	MCQ	Find the class mark of a population whose class intervals are x1 to x2__	X1-X2/2	X1+X2/2	X1/X2/2	(X1)(X2)/2
	MCQ	Find the third quartile in the following data set; 22,31,20,24,27,55__	22	19	33	29

Showing 1 to 150 of 150 entries

Previous 1 Next