eExam Question Bank

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	Question Type	Question	A	B	C	D	Answer	Remark
	FBQ	A committee of 5 doctors can be chosen from 9 doctors in _____ ways	126					eExam
	FBQ	if the probability of a defective syringe is 0.4. The mean for the distribution of defective syringes in a total of 500 will _____	200					eExam
	FBQ	When a change in one variable is to a small extent matched by a change in the other, this is called _____ correlation	low					eExam
	FBQ	The risk of rejecting a true hypothesis is known as _____ error	Type1	Type 1				eExam
	FBQ	The area in the normal distribution diagram that indicate that a null hypothesis should be rejected is called the _____ region	critical	rejection				eExam
	FBQ	A conjecture about a population parameter which may or may not be true is called _____	hypothesis					eExam

☐								
☐	FBQ	The width of the termite house is normally distributed with mean 3cm and standard deviation 0.14. what width value separates the widest 10% of all such house from the other 90%?	3.179					eExam
☐	FBQ	In measuring the height of some rabbit, the mean was 76, and the standard deviation was 6, calculate the standard height of rabbits having a height of 112	6					eExam
☐	FBQ	Evaluate P(-0.38 <=z <=1.25)	0.5424					eExam
☐	FBQ	For a certain breed of monkey in a zoo, the time to start eating when food is supply is normally distributed with mean 1.25 min and standard deviation of 0.46 min. what is the probability that the time to start eating is between 1 min and 1.75min	0.5675					eExam
☐	FBQ	If a normal distribution has u=30 and sd(a)= 5, what is the 6th percentile of the distribution?	22.225					eExam
☐	FBQ	Classifying variable into a numerical quantity that can be order and ranked is called	Quantitative					eExam
☐	FBQ	A system of taking element that constitute a sample at regular interval is called	Systematic					eExam

☐								
☐	FBQ	A random process of selecting a sample from a population selected for study is called _____	Sampling					eExam
☐	FBQ	A sample obtained by dividing the population into subgroups of homogenous characteristics is called _____ sampling	Stratified					eExam
☐	MCQ	Adult males have normally distributed heights with mean equal to 70 in and standard deviation equal to 3 in, what percent are between 68 and 73 in?	0.4371	0.5889	0.6751	0.3445	B	eExam
☐	MCQ	If 3% of the yam tuber harvest from a portion of farmland get rotten within 5 weeks of harvest, find the probability that in a sample of 100 tubers less than or equal to 2 tubers will be defective	0.2187	0.7542	0.9941	0.4232	D	eExam
☐	MCQ	The mean yield of yam following the fertilizer treatment from 10 plots was 176.1kg with standard deviation 3.88. What is the 95% confidence limit for the mean yield of the yam?	(173.32, 178.88)	(152.35, 182.02)	(144.23, 179.77)	(162.42, 180.54)	A	eExam
☐	MCQ	In a poultry farming, the daily demand for water is normally distributed with a mean of 4000 litres and a standard deviation of 400 litres, if z-score of demand for a given day is 1.3. how many litres of water is the demand for the day?	5540 litres	6650 litres	3650 litres	4520 litres	D	eExam
☐	MCQ	When do we have a negative correlation?	when an increase in one variable is associated to a greater or lesser extent with an increase in the other	when a change in one variable is to a small extent matched by a change in the other.	when an increase in one variable is associated to a greater or lesser extent with a decrease in the other	when the two variables are not in matched at all, and there is no relationship between changes in one variable and changes in the other.	C	eExam

☐	MCQ	A biologist discover that the proportion of 5 micro organisms in pond are V=24, W=36, X=15,Y=27, Z=38, determine the relative frequency of organism X	8.23	25.22	10.71	15.23	C	eExam
☐	MCQ	Find the probability that in five tosses of a fair die a 5 appears at no time	2124/5561	2626/5671	3125/7776	1354/5004	C	eExam
☐	MCQ	A basket contains 5 oranges, 4 Mangoes , 3 Apples and 2 guavas. If 4 fruits are drawn at random, determine the probability that 1 of each fruit is drawn	0.55	0.12	0.31	0.48	B	eExam
☐	MCQ	Which of the following is not an experimentation principle?	diversion	Homogeneity	Replication	Randomization	A	eExam
☐	MCQ	if the probability of a defective syringe is 2/3. find the standard deviation for the distribution of defective syringes in a total of 729	15.2	12.73	20.56	25.63	B	eExam
☐	MCQ	Before applying a statistics in a research, which of the following statement is incorrect in what a researcher needs to know?	Statistical significance test for comparing one set of data with another	What technique to use for an investigation	Un-clarification of what to be achieved	Rules of using the technique, using correctly the statistical techniques for analysis of biological data	C	eExam
☐	MCQ	Ten percent of the tools produced in a certain manufacturing process turn out to be defective. Find the probability that in a sample of 10 tools chosen at random exactly 2 will be defective by using poisson approximation to binomial distribution	0.74	0.58	0.62	0.18	D	eExam
☐	MCQ	The average number of customers arriving on any one day at poultry farming is 12, what is the probability that on a given day fewer than 9 customers will arrive at the farm?	0.16	1.4	0.13	0.72	A	eExam

☐	MCQ	Find the probability that seven of 10 persons will recover from a tropical disease if we can assume independence and the probability is 0.80 that any one of them will recover from the disease	0.45	0.12	0.2	0.39	C	eExam
☐	MCQ	Weight measurement is conducted on new harvest of Watermelon, Thirty (n=30) randomly selected watermelon are carefully weigh and the weight recorded, the mean weight of the sample is 28.6g and the sample standard deviation is 2.2g. Estimate a 95% confidence interval for the mean weight in the whole watermelon harvest	(25.72, 31.24)	(21.34, 28.41)	(27.81, 29.39)	(25.61, 29.12)	C	eExam
☐	MCQ	The seven pairs of values (x, y) below shows the number of absences, x, in a BIO206 tutorial at Abuja study centre and the final exam grade, y, for 7 students. Find the equation of regression between x and y (1, 95), (0 , 90), (2,90), (6 ,55), (4, 70), (3 ,80), (3,85)	y = 3.56x - 9.57	y = -7.12x+12.38	y = -2.55x - 6.23	y = -6.55x+98.49	D	eExam
☐	MCQ	The seven pairs of values (x, y) below shows the number of absences, x, in a BIO206 tutorial at Abuja study centre and the final exam grade, y, for 7 students. Find the correlation coefficient between x and y (1, 95), (0 , 90), (2,90), (6 ,55), (4, 70), (3 ,80), (3,85)	r = 0.82	r = -0.93	r = -0.56	r = 0.75	B	eExam
☐	MCQ	In a poultry farming, the daily demand for water is normally distributed with a mean of 4000 litres and a standard deviation of 400 litres, if z-score of demand for a given day is 1.3. how many litres of water is the demand for the day?	3650 litres	6650 litres	4520 litres	5540 litres	C	eExam

☐								
☐	MCQ	Given a sample size and standard deviation as n=144 and s=24 respectively, find the population standard deviation_____	2	4	6	8	A	eExam
☐	MCQ	The mean yield of yam following the fertilizer treatment from 10 plots was 176.1kg with standard deviation 3.88. What is the 95% confidence limit for the mean yield of the yam?	(152.35, 182.02)	(144.23, 179.77)	(162.42, 180.54)	(173.32, 178.88)	D	eExam

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