

eExam Question Bank

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<input type="checkbox"/>	Question Type <input type="checkbox"/>	Question <input type="checkbox"/>	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>	Answer <input type="checkbox"/>	Remark <input type="checkbox"/>
<input type="checkbox"/>	FBQ	Since the calculated F is less than <input type="text"/> F, it is not significant . Hence Ho may be accepted at 5% level of significance or risk level.	tabulated					<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	The outcomes <input type="text"/> of a hypothesis test is the set of all <input type="text"/> which cause the null hypothesis to be rejected in favour of the <input type="text"/> hypothesis	region, outcomes, alternative					<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	In statistics, a result is interpreted as being statistically <input type="text"/> if it has been predicted as unlikely to have occurred by <input type="text"/> alone, according to a pre-determined threshold probability, the significance level	significant, chance					<input type="button" value="eExam"/>
<input type="checkbox"/>	FBQ	The normal curve approaches the horizontal axis asymptotically as we proceed in either <input type="text"/> away from the <input type="text"/> —.	direction, mean					<input type="button" value="eExam"/>

<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	<p>If we toss a fair coin <math>n</math> times (which is fixed and finite) then the</p> <input type="text"/> <p>of any trial is one of the</p> <input type="text"/> <p>exclusive events, viz., head (success) and tail (failure)</p>	outcome, mutually						eExam
<input type="checkbox"/>	FBQ	<p>In the Binomial distribution, the outcome of the random experiment (trial) results in the</p> <input type="text"/> <p>classification of</p> <input type="text"/>	dichotomous, events						eExam
<input type="checkbox"/>	FBQ	<p>These sets of finite sequences are referred to as cylinder sets in the product</p> <input type="text"/>	topology						eExam
<input type="checkbox"/>	FBQ	<p>The Bernoulli process can be formalized in the language of probability</p> <input type="text"/> <p>as a</p> <input type="text"/> <p>sequence of</p> <input type="text"/> <p>realisations of a random variable that can take values of heads or tails</p>	spaces, random, independent						eExam
<input type="checkbox"/>	FBQ	<p>For selling an item for N850 a trader made a profit of 15%. His selling</p> <input type="text"/> <p>to make a profit of 20% should be</p> <input type="text"/>	price, 887						eExam
<input type="checkbox"/>	FBQ	<p>An imaginary is a number that has</p> <input type="text"/> <p>square root</p>	negative						eExam
<input type="checkbox"/>	FBQ	<p>Find the sum of eight terms of the GP 2,6,18,</p> <input type="text"/>	6560						eExam

<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	The second term of a geometric progression is 6 and the fifth term is 162. find the third term <input type="text"/> _	18						eExam
<input type="checkbox"/>	FBQ	The 3rd and the 6th term of GP are 18 and 486, find the 10th term <input type="text"/>	39366						eExam
<input type="checkbox"/>	FBQ	Given that first term of a GP is 900 and the common ratio is 2.07. find the 4th term of the GP <input type="text"/>	7982.8						eExam
<input type="checkbox"/>	FBQ	Given that $5/x^2+x-6 = A/x+3 + B/x-2$ . find A and B <input type="text"/>	A = -1 B = 1						eExam
<input type="checkbox"/>	FBQ	Divide $2x^3+ 4x^2-6x+1$ by $x+3$ and find the remainder <input type="text"/>	1						eExam
<input type="checkbox"/>	FBQ	Find the value of x, given that $f(x)= 5x^3-3x^2+x+7$ , $g(x) = 6x^2+5x-4$ and $h(x)= 8x^3+5x-2$ , where $f(x) + 2g(x) -3h(x)$ at $x = 2$ <input type="text"/>	-119						eExam
<input type="checkbox"/>	FBQ	Factor the polynomial $a^2+bc+ab+ac$ <input type="text"/>	$(a+c)(a+b)$						eExam
<input type="checkbox"/>	FBQ	Find the HCF of $144a^3b^2$ and $54a^2bc^2$ <input type="text"/>	$18a^2b$						eExam
<input type="checkbox"/>	FBQ	Find the LCM of $12ax^2$ , $18b^3xy$ and $24xy^3$ <input type="text"/>	$72ab^3x^2y^3$						eExam
<input type="checkbox"/>	FBQ	Find the present value of N923 receivable in 7 years if the money is worth 15% per year compounded quarterly <input type="text"/>	346.98						eExam
<input type="checkbox"/>	FBQ	A man deposit 20,000 at 9% per year. Find the compound amount at the end of 12years. <input type="text"/>	56253.3						eExam



<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	It took 7men 35hours to build a house. How much time will it take 12 men working at the same rate to finish the house. <input type="text"/>	20hrs 42mins						eExam
<input type="checkbox"/>	FBQ	Find the present value of 10,000 receivable 5 years from now if money is worth 10% per annum. <input type="text"/>	6209.2						eExam
<input type="checkbox"/>	FBQ	The logarithm of a <input type="text"/> is simply the <input type="text"/> of the logarithms of the <input type="text"/> —.	product, sum, factors						eExam
<input type="checkbox"/>	FBQ	The condition $f(x_1, \dots, x_n) = f( x_1 , \dots,  x_n )$ ensures that $X_1, \dots, X_n$ are of <input type="text"/> mean and <input type="text"/> ; still, they need not be independent, nor even <input type="text"/> independent.	zero, uncorrelated, pairwise						eExam
<input type="checkbox"/>	FBQ	An important <input type="text"/> of a log-concave density is a function <input type="text"/> inside a given convex body and <input type="text"/> outside	example, constant, vanishing						eExam
<input type="checkbox"/>	FBQ	The law of large numbers says that the sample <input type="text"/> of a random sample <input type="text"/> in probability to the mean $\mu$ of the individual random variables, if the <input type="text"/> exists.	mean, converges, variance						eExam

<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	<p>The convergence to the normal distribution is</p> <input type="text"/> <p>_, in the sense that the entropy of <math>Z_n</math></p> <input type="text"/> <p>monotonically to that of the normal</p> <input type="text"/> <p>—.</p>	monotonic, increases, distribution						eExam
<input type="checkbox"/>	FBQ	<p>Regression analysis is a mathematical</p> <input type="text"/> <p>of the average relationship between c</p> <input type="text"/> <p>or more variables in terms of the original units of the</p> <input type="text"/> <p>—.</p>	measure, measure, data						eExam
<input type="checkbox"/>	FBQ	<p>The correlation</p> <input type="text"/> <p>only the degree of</p> <input type="text"/> <p>association between two variables while regression analysis is a statistical process for estimating the</p> <input type="text"/> <p>among variables.</p>	measures, linear, relationships						eExam
<input type="checkbox"/>	FBQ	<p>A</p> <input type="text"/> <p>coefficient means that x and y values</p> <input type="text"/> <p>and decrease in the same</p> <input type="text"/>	positive, increases, direction						eExam
<input type="checkbox"/>	FBQ	<p>The H-Test or the Kruskal-Wallis Test is usually based on</p> <input type="text"/> <p>sample theory that the sampling</p> <input type="text"/> <p>of H can be closely approximated with a chi-square distribution with</p> <input type="text"/> <p>degree of freedom</p>	large, distribution, k-1						eExam

<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	<p>Non-parametric  <input type="text"/>                      are widely used for studying  <input type="text"/>                      that take on a ranked  <input type="text"/>                      (such as movie reviews receiving one to four stars).</p>	<p>methods,                      populations,                      order</p>						eExam
<input type="checkbox"/>	FBQ	<p>Under the hypothesis of  <input type="text"/>                      of attributes the expected outcome for any of the cell frequencies can be obtained by multiplying the row totals and the column totals in which the  <input type="text"/>                      occurs and dividing the product by the  <input type="text"/>                      frequency <math>N</math>".</p>	<p>independence,                      frequency,                      total</p>						eExam
<input type="checkbox"/>	FBQ	<p>ANOVA is very  <input type="text"/>                      in the multiple comparison of  <input type="text"/>                      among other important uses in both social and applied  <input type="text"/>                      —.</p>	<p>useful, mean,                      sciences</p>						eExam
<input type="checkbox"/>	FBQ	<p>To obtain the variation between  <input type="text"/>                      __, we compute the sum of the  <input type="text"/>                      of the deviations of the various sample means from the overall (grand)  <input type="text"/></p>	<p>samples,                      squares,                      mean</p>						eExam
<input type="checkbox"/>	FBQ	<p>The main objective of the analysis of variance technique is to  <input type="text"/>                      if there is significant  <input type="text"/>                      between the class  <input type="text"/>                      in view of the inherent variability within the separate classes.</p>	<p>examine,                      difference,                      means</p>						eExam

<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	<p>The variation due to assignable causes can be detected and</p> <input type="text"/> <p>whereas the variation due to chances is beyond the</p> <input type="text"/> <p>of human and cannot be traced</p> <input type="text"/>	measured, control, separately						eExam
<input type="checkbox"/>	FBQ	<p>On the other hand, if</p> <input type="text"/> <p>value of <math>\chi^2</math> is greater than the</p> <input type="text"/> <p>value, it is said to be</p> <input type="text"/>	calculated, tabulated, significant						eExam
<input type="checkbox"/>	FBQ	<p>Since the calculated F is less than</p> <input type="text"/> <p>F, it is not</p> <input type="text"/> <p>. Hence <math>H_0</math> may be</p> <input type="text"/> <p>at 5% level of significance or risk level.</p>	tabulated, significant, accepted						eExam
<input type="checkbox"/>	FBQ	<p>F-statistic is the ratio of two</p> <input type="text"/> <p>chi-square variates</p> <input type="text"/> <p>by their respective</p> <input type="text"/> <p>of freedom.</p>	independent, divided, degrees						eExam
<input type="checkbox"/>	FBQ	<p>The</p> <input type="text"/> <p>region of a hypothesis test is the set of all</p> <input type="text"/> <p>which cause the null hypothesis to be rejected in favour of the</p> <input type="text"/> <p>hypothesis</p>	outcomes, outcomes, alternative						eExam



<input type="checkbox"/>									
<input type="checkbox"/>	FBQ	<p>In statistics, a result is interpreted as being</p> <input type="text"/> <p>significant if it has been predicted as unlikely to have occurred by</p> <input type="text"/> <p>alone, according to a pre-determined threshold probability, the</p> <input type="text"/> <p>level</p>	<p>statistically, chance, significance</p>						eExam
<input type="checkbox"/>	FBQ	<p>The normal curve approaches the</p> <input type="text"/> <p>axis asymptotically as we proceed in either</p> <input type="text"/> <p>away from the</p> <input type="text"/> <p>—.</p>	<p>horizontal, direction, mean</p>						eExam
<input type="checkbox"/>	FBQ	<p>If we toss a</p> <input type="text"/> <p>coin <math>n</math> times (which is fixed and finite) then the</p> <input type="text"/> <p>of any trial is one of the</p> <input type="text"/> <p>exclusive events, viz., head (success) and tail (failure)</p>	<p>fair, outcome, mutually</p>						eExam
<input type="checkbox"/>	FBQ	<p>In the Binomial distribution, the</p> <input type="text"/> <p>of the random experiment (trial) results in the</p> <input type="text"/> <p>classification of</p> <input type="text"/>	<p>outcome, dichotomous, events</p>						eExam
<input type="checkbox"/>	FBQ	<p>These sets of finite</p> <input type="text"/> <p>are referred to as</p> <input type="text"/> <p>sets in the</p> <input type="text"/> <p>topology</p>	<p>sequences, cylinder, product</p>						eExam

<input type="checkbox"/>								
<input type="checkbox"/>	FBQ	The Bernoulli process can be formalized in the language of _____ spaces as a random sequence of _____ realisations of a random variable that can take _____ of heads or tails	probability, independent, values					eExam
<input type="checkbox"/>	MCQ	Given that first term of a GP is 900 and the common ratio is 2.07. find the 4th term of the GP	8400.9	645.5	7982.8	21400	C	eExam
<input type="checkbox"/>	MCQ	Given that $5/x^2+x-6 = A/x+3 + B/x-2$ . find A and B	A = -3, B = 6	A = 3, B = -1	A = -1, B = 1	A=1, B=1	C	eExam
<input type="checkbox"/>	MCQ	Divide $2x^3+ 4x^2-6x+1$ by $x+3$ and find the remainder	-3	1	-1	2	B	eExam
<input type="checkbox"/>	MCQ	Find the value of x, given that $f(x)= 5x^3-3x^2+x+7, g(x) = 6x^2+5x-4$ and $h(x)= 8x^3+5x-2$ , where $f(x) + 2g(x) -3h(x)$ at $x = 2$	-119	-201	117	28.4	A	eExam
<input type="checkbox"/>	MCQ	Divide $x^3+ x^2-10x+8 \div x-4$ and find the value of x	-3 or 4	-2 or 1	7 or 8	1 or -4	D	eExam
<input type="checkbox"/>	MCQ	Simplify and solve for x, given $(0.125)x+1 = 1/64$	1	2	3	4	A	eExam
<input type="checkbox"/>	MCQ	Simplify without using table $\log_5 12.5 + \log_5 2$	3	1	4	2	D	eExam
<input type="checkbox"/>	MCQ	The LCM of $14a^2b^2, 7ab$ and $28ab^2$ is	28ab	$28ab^2$	$56b^2a^2$	$28a^2b^2$	D	eExam
<input type="checkbox"/>	MCQ	The ratio by weight (kg) of zinc, tin and copper are 4:3:3, if the work requires 640kg alloy, what is the required kg for zinc	255kg	257kg	256kg	75kg	C	eExam
<input type="checkbox"/>	MCQ	Which of the these is an imaginary	$\sqrt{9}$	25	$\sqrt{-4}$	3%	C	eExam
<input type="checkbox"/>	MCQ	Another name for standard error is _____	error margin	population error	median error	error of omission	A	eExam
<input type="checkbox"/>	MCQ	A particular value of the population, such as the mean income or the level of formal education, is called a _____	parameter	limit	constraint	factor	A	eExam

<input type="checkbox"/>								
<input type="checkbox"/>	MCQ	_____ is not of the ways to evaluate the reliability of a linear regression model	the t and F, which test the explanatory power of the independent variables	the econometric confidence interval	the forecast confidence interval	the R2 which measures the goodness of fit	B	eExam
<input type="checkbox"/>	MCQ	The best fit line can be given as _____	$x = a + by$	$a = y + bx$	$y = a + bx$	$y = ay + bx$	C	eExam
<input type="checkbox"/>	MCQ	Typical regression model is specified in form of _____	$Y = a + bX + e$	$Y = a + bX + c$	$Y = a + bX + ex$	$Y = a + bX + ev$	A	eExam
<input type="checkbox"/>	MCQ	F-statistic is the ratio of _____ chi-square variates divided by their respective degrees of freedom	two independent	two dependent	three independent	three dependent	A	eExam
<input type="checkbox"/>	MCQ	Prices of shares of a company on the different days in a month were found to be: 66, 65, 69,70, 69, 71, 70, 63, 64 and 68. What is the mean price of the price of the shares in the month?	67.4	67.5	67.6	67.7	B	eExam
<input type="checkbox"/>	MCQ	The assumptions for Student's test do not include _____	The parent population from which the sample is drawn is normal	The sample observations are independent i.e the given sample is random.	The population standard deviation $\zeta$ is known	The population standard deviation $\zeta$ is unknown	C	eExam
<input type="checkbox"/>	MCQ	If the absolute value of the calculated t is greater than tabulated t, we say it is significant and the null hypothesis is _____	accepted	reset	rejected	amended	C	eExam
<input type="checkbox"/>	MCQ	Given two variables X and Y: If $r = -1$ , there is a perfect _____ relationship between Y and X.	direct relationship	zero	inverse or negative	indirect relationship	C	eExam
<input type="checkbox"/>	MCQ	From a class of 12 students , six are to be selected as a member of a committee. In how many ways can this be done.	62555	665280	234560	320450	B	eExam
<input type="checkbox"/>	MCQ	How many ways can a committee of two men and three women be selected from groups of eight men and seven women.	780	880	980	1080	C	eExam

<input type="checkbox"/>								
<input type="checkbox"/>	MCQ	In how many ways can the letter of the word FRACTIONS be written	362,880 ways	4842 ways	720 ways	7999 ways	A	eExam
<input type="checkbox"/>	MCQ	In how many ways can the letter OSOGBO be arranged	138 ways	180 ways	120 ways	30 ways	C	eExam
<input type="checkbox"/>	MCQ	In how many ways can the word EXAMINATION be arranged	100213	242464	4989600	587678	C	eExam
<input type="checkbox"/>	MCQ	Multiply $4! \times 12$	300	288	450	270	B	eExam
<input type="checkbox"/>	MCQ	Solve ${}^7P_4 - {}^4P_3$	900	375	280	828	D	eExam
<input type="checkbox"/>	MCQ	Simplify $10! / (10 - 5)!$	22575	88490	4123	30240	D	eExam
<input type="checkbox"/>	MCQ	How many ways can a committee of two men and three women be selected from groups of eight men and seven women.	780	880	980	1080	C	eExam
<input type="checkbox"/>	MCQ	A school committee is to be formed. There are nine girls and six eligible boys. In how many ways can the committee be formed if there are four girls and three boys	2520	3500	2825	3020	A	eExam
<input type="checkbox"/>	MCQ	From a class of 12 students, six are to be selected as a member of a committee. In how many ways can this be done.	62555	665280	234560	320450	B	eExam
<input type="checkbox"/>	MCQ	Solve ${}^7P_4 - {}^4P_3$	900	375	280	828	D	eExam
<input type="checkbox"/>	MCQ	A committee has ten members, how many ways can the MD, Chairman, Secretary and ICT manager be selected	5000 ways	7200 ways	5040 ways	23,00 ways	C	eExam
<input type="checkbox"/>	MCQ	Multiply $4! \times 12$	300	288	450	270	B	eExam
<input type="checkbox"/>	MCQ	Five men sit around a circular table, how many ways can this be done.	120 ways	130 ways	140 ways	138 ways	A	eExam
<input type="checkbox"/>	MCQ	In how many ways can the letter OSOGBO be arranged	138 ways	180 ways	120 ways	30 ways	C	eExam
<input type="checkbox"/>	MCQ	Find the value of $(1.06)^7$	1.85	1.33	1.23	1.5	D	eExam
<input type="checkbox"/>	MCQ	In how many ways can the word EXAMINATION be arranged	100213	242464	4989600	587678	C	eExam

<input type="checkbox"/>								
<input type="checkbox"/>	MCQ	In how many ways can the letter of the word FRACTIONS be written	362,880 ways	4842 ways	720 ways	7999 ways	A	eExam
<input type="checkbox"/>	MCQ	Simplify $10! / (10 - 5)!$	22575	88490	4123	30240	D	eExam
<input type="checkbox"/>	MCQ	$(7\frac{3}{5} \text{ of } 17/19) / 15/25$	$11\frac{1}{3}$	$\frac{1}{3}$	9 7/9	2/33	A	eExam
<input type="checkbox"/>	MCQ	1 6/9 of $\frac{2}{3} - 3\frac{1}{3} + 2\frac{1}{2} / \frac{1}{2}$	$4\frac{1}{5}$	$17\frac{1}{2}$	2 41/45	$3\frac{3}{8}$	C	eExam
<input type="checkbox"/>	MCQ	An imaginary number is a number that has	Positive square root	positive square	negative square	negative square root	D	eExam
<input type="checkbox"/>	MCQ	An improper fraction is classified as	3/2	$3\frac{1}{3}$	$\frac{3}{5}$	$\frac{1}{3}$	A	eExam
<input type="checkbox"/>	MCQ	convert ratio 4:5 to percentage	0.45	0.8	0.355	0.42	B	eExam
<input type="checkbox"/>	MCQ	Express 5hrs as a ratio of 1week and 2days	5/200	5/216	6/17	8/9	B	eExam
<input type="checkbox"/>	MCQ	Express the fraction in the lowest possible equivalent $16x^5y^4 * 48xy / 32xy * 24x^3y^2$	2xy	$x^2y^3$	$\frac{1}{2}x^2y^3$	$x^2y$	B	eExam
<input type="checkbox"/>	MCQ	Factor the polynomial $4x^2+20x+3xy+15y$	$(4x-3y)(x+5)$	$(4x+3y)(x+5)$	$(4x+3y)^2(x-5)$	$(x-5)(4x+3y)$	B	eExam
<input type="checkbox"/>	MCQ	For selling an item for N850 a trader made a profit of 15%. What should be selling price be to make a profit of 20%.	739	887	850	705	B	eExam
<input type="checkbox"/>	MCQ	Given that factor over head is $\frac{2}{5}$ , prime cost is $\frac{1}{5}$ . Calculate the fraction of the total spent on other items.	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{4}{5}$	4/7	A	eExam
<input type="checkbox"/>	MCQ	It took 7men 35hours to build a house. How much time will it take 12 men working at the same rate to finish the house.	20hrs 42mins	28hrs 3mins	27hrs 48mins	38hrs 44mins	A	eExam
<input type="checkbox"/>	MCQ	Make x the subject of the formula $L = xh/a(x+p)$	$x = h - ap/a + p$	$x = ap/h - La$	$xh = ap/La$	$h = apx/Lax$	B	eExam
<input type="checkbox"/>	MCQ	Simplify $\sqrt{27} * \sqrt{50} / \sqrt{54}$	5	17	7	6	B	eExam
<input type="checkbox"/>	MCQ	Simplify $1\frac{1}{3} + (2/4 \text{ of } 12/16) - \frac{5}{6}$	21/38	5/9	7/12	7/8	D	eExam
<input type="checkbox"/>	MCQ	simplify $3\frac{1}{2} - 2\frac{7}{12}$	10/12	1 1/12	11/12	9/10	C	eExam
<input type="checkbox"/>	MCQ	Simplify and solve for x, given $(0.125)x + 1 = 1/64$	1	2	3	4	A	eExam

<input type="checkbox"/>								
<input type="checkbox"/>	MCQ	Simplify without using table $\log_5 12.5 + \log_5 2$	3	1	4	2	D	eExam
<input type="checkbox"/>	MCQ	The LCM of $14a^2b^2$ , $7ab$ and $28ab^2$ is	$28ab$	$28ab^2$	$56b^2a^2$	$28a^2b^2$	D	eExam
<input type="checkbox"/>	MCQ	The ratio by weight (kg) of zinc, tin and copper are 4:3:3, if the work requires 640kg alloy, what is the required kg for zinc	255kg	257kg	256kg	75kg	C	eExam
<input type="checkbox"/>	MCQ	Which of the these is an imaginary	$\sqrt{9}$	25	$\sqrt{-4}$	$3\%$	C	eExam

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