eco153 List of eExam Questions in the Bank

Q1 Since the calculated F is less than		ce Ho may be accented at '	5% level of significance or risk level
_			_
Q2 The outcomes favour of the	of a hypothesis test is the set of all hypothesis	which cause	the null hypothesis to be rejected in
Q3 In statistics, a result is interpreted alone, accor	as being statiscally if it has ding to a pre-determined threshold probability, the s	s been predicted as unlikel ignificance level	y to have occurred by
Q4 The normal curve approaches the	horizontal axis asymptotically as we proceed in eithe	r	away from the
Q5 If we toss a fair coin n times (which events, viz., head (success) and tail (fair	,	of any trial is one of the	exclusive
Q6 In the Binomial distribution, the o	utcome of the random experiment (trial) results in th	e	classification of
Q7 These sets of finite sequences are r	referred to as cylinder sets in the product		
Q8 The Bernoulli process can be form		as a	sequence of
realisations	of a random variable that can take values of heads of	r tails	
Q9 For selling an item for N850 a trad	ler made a profit of 15%. His selling	to make a profit	of 20% should be
Q10 An imaginary is a number that ha	as square root		
Q11 Find the sum of eight terms of the	e GP 2,6,18,		
Q12 The second term of a geometric p	progression is 6 and the fifth term is 162. find the thir	d term	
Q13 The 3rd and the 6th term of GP a	re 18 and 486, find the 10th term		
Q14 Given that first term of a GP is 90	00 and the common ratio is 2.07. find the 4th term of	the GP	
Q15 Given that $5/x^2+x-6 = A/x+3 + B/x$	x-2. find A and B		
Q16 Divide 2x ³ + 4x ² -6x+1 by x+3 and	find the remainder		
Q17 Find the value of x, given that f(x)	$=5x^3-3x^2+x+7,g(x)=6x^2+5x-4$ and $h(x)=8x^3+5x-2$, v	where $f(x) + 2g(x) - 3h(x)$ at	x = 2
Q18 Factor the polynomial a²+bc+ab+	ac		
Q19 Find the HCF of 144a3b2 and 54a	²bc²		
Q20 Find the LCM of 12ax ² , 18b ³ xy a	nd 24xy³		
Q21 Find the present value of N923 re	eceivable in 7 years if the money is worth 15% per year	ar compounded quarterly	
Q22 A man deposit 20,000 at 9% per y	year. Find the compound amount at the end of 12yea	rs.	
Q23 The first and last term of an AP a	are 5 and 100 respectively. Find the sum of AP, if the	AP has 20 terms.	
Q24 The 4th and 7th term of an arithm	metic sequence are 6 and 15 respectively. Find the ntl	n term of the sequence	
Q25 Tunde save N 40,000 in the first y saved in 5years	rear of a new job. In each subseqent year, he saved 15	5% more than in the previo	ous year. How much in total has he
Q26 Solve the simultaneous inequalities	es $6x - 2y \ge 14$ and $14x + 3y \le 24$ and determine the va	alues of x and y.	
Q27 The sum of eight times a number	and 15 is less than thrice the same number minus 10	, find the number.	
Q28 Simplify \(\sqrt{27} * \sqrt{50} / \sqrt{54} \)			
Q29 Make x the subject of the formula	a L = xh/a(x+p)		

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O43 A

applied

freedom. O54 The

Q53 F-statistic is the ratio of two

avour of the	nypotnesis		
255 In statistics, a result is interpreted	as being	significant if it has been predicted as unl	ikely to have occurred by
alone, accord	ing to a pre-determined threshold	probability, the	level

chi-square variates

region of a hypothesis test is the set of all

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of

by their respective

which cause the null hypothesis to be rejected in

Q56 The normal curve approaches t	he axis asymptotic	ally as we proceed in either	away from the
Q57 If we toss a exclusive of	coin n times (which is fixed and finite) events, viz., head (success) and tail (failure)	then the	of any trial is one of the
Q58 In the Binomial distribution, th	e of the random ex	periment (trial) results in the	classification o
Q59 These sets of finite	are referred to as	sets in the	topology
Q60 The Bernoulli process can be for realisations of a random variable that		spaces as a random seque s or tails	ence of
Q61 Given that first term of a GP is 8400.9 645.5 7982.8 21400	900 and the common ratio is 2.07. find the 4	th term of the GP	
Q62 Given that $5/x^2+x-6 = A/x+3 + B$ \bigcirc A = -3, B = 6 \bigcirc A = 3, B = -1 \bigcirc A = -1, B = 1 \bigcirc A=1, B=1	3/x-2. find A and B		
Q63 Divide 2x³+ 4x²-6x+1 by x+3 an ○ -3 ○ 1 ○ -1 ○ 2	d find the remainder		
Q64 Find the value of x, given that f ○ -119 ○ -201 ○ 117 ○ 28.4	$f(x) = 5x^3 - 3x^2 + x + 7, g(x) = 6x^2 + 5x - 4$ and $f(x) = 8$	$x^{3}+5x-2$, where $f(x) + 2g(x) -3h(x)$ a	at $x = 2$
Q65 Divide x³+ x²-10x+8 ÷ x-4 and fi	nd the value of x		
Q66 Simplify and solve for x, given (○ 1 ○ 2 ○ 3 ○ 4	(0.125)x+1 = 1/64		
Q67 Simplify without using table log 3 1 4 2	5512.5 + log52		
Q68 The LCM of 14a ² b ² ,7ab and 28a 28ab 28ab ² 56b ² a ² 28a ² b ²	ab² is		
Q69 The ratio by weight (kg) of zinc 255kg 257kg 256kg 75kg	, tin and copper are 4:3:3, if the work requir	es 640kg alloy, what is the required	kg for zinc
Q70 Which of the these is an imagin $\sqrt{9}$	ary		

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Q71 Another name error margin population error median error error of omission	for standard error is
	llue of the population, such as the mean income or the level of formal education, is called a
the t and F, whichthe econometric ofthe forecast confi	
Q74 The best fit line $x = a + by$ $a = y + bx$ $y = a + bx$ $y = ay + bx$	e can be given as
Q75 Typical regress $Y = a + bX + e$ $Y = a + bX + c$ $Y = a + bX + c$ $Y = a + bX + ex$ $Y = a + bX + ev$	ion model is specified in form of
Q76 F-statistic is the two independent two dependent three independen three dependent	e ratio of chi-square variates divided by their respective degrees of freedom t
Q77 Prices of shares the price of the share 67.4 67.5 67.6 67.7	s 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 res in the month?
The parent populThe sample obserThe population st	ation from which the sample is drawn is normal rvations are independent i.e the given sample is random. tandard deviation ζ is known tandard deviation ζ is unknown
Q79 If the absolute accepted reset rejected amended	value of the calculated t is greater than tabulated t, we say it is significant and the null hypothesis is
Q80 Given two vari direct relationship zero inverse or negativ indirect relationship	ve
Q81 From a class of 62555 665280 234560 320450 	f 12 students, six are to be selected as a member of a committee. In how many ways can this be done.

Q82 How many ways can a committee of two men and three women be selected from groups of eight men and seven women.

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O 780	
○ 880	
○ 980	
O 1080	
O92 In how many ways can the lett	er of the word FRACTIONS be written
 362,880 ways 	er of the word FRACTIONS be written
○ 4842 ways	
720 ways	
○ 7999 ways	
-	
Q84 In how many ways can the letter	er OSOGBO be arranged
138 ways	
180 ways120 ways	
30 ways	
© 30 ways	
Q85 In how many ways can the wor	d EXAMINATION be arranged
0 100213	
O 242464	
4989600	
587678	
Q86 Multiply 4 ₁ x 12	
○ 300	
O 288	
O 450	
O 270	
Q87 Solve ⁷ P ₄ – ⁴ P ₃	
900	
375 380	
280828	
0 828	
Q88 Simplify 101 /(10 -5)1	
O 22575	
O 88490	
0 4123	
O 30240	
O89 How many ways can a commit	tee of two men and three women be selected from groups of eight men and seven women.
O 780	
O 880	
O 980	
O 1080	
O90 A schoolcommttee is to be forn	ned. There are mine girl and six eligible boys. In how many ways can the committee be formed if there are four girls
and three boys	icu. There are mine gut and six engine boys. In now many ways can the committee be formed it there are four guts
O 2520	
O 3500	
O 2825	
O 3020	
O01 From a class of 12 students si	x are to be selected as a member of a committee. In how many ways can this be done.
62555	t are to be selected as a member of a committee. In now many ways can this be done.
© 665280	
234560	
O 320450	
_	
Q92 Solve ⁷ P ₄ – ⁴ P ₃	
900	
375	
280	
O 828	
Q93 A committee has ten members.	how many ways can the MD, Chairman, Secertary and ICT manager be selected
○ 5000 ways	
○ 7200 ways	
○ 5040 ways	
23,00 ways	

Q94 Multiply 41 x 12
300
© 288
0 450 0 250
O 270
Q95 Five men sit around a circular table, how many ways can this be done.
0 120 ways
○ 130 ways
○ 140 ways
○ 138 ways
Q96 In how many ways can the letter OSOGBO be arranged
○ 138 ways
○ 180 ways
○ 120 ways
30 ways
Q97 Find the value of $(1.06)^7$
0 1.85
0 1.33
0 1.23
0 1.5
Q98 In how many ways can the word EXAMINATION be arranged
0 100213
242464
O 4989600
O 587678
Q99 In how many ways can the letter of the word FRACTIONS be written
○ 362,880 ways
○ 4842 ways
O 720 ways
7999 ways
0 /999 ways
•
Q100 Simplify 101/(10 -5)1
Q100 Simplify 101/(10 -5)1 22575
Q100 Simplify 101 /(10 -5)1 22575 88490
Q100 Simplify 101 /(10 -5)1 22575 88490 4123
Q100 Simplify 101 /(10 -5)1 22575 88490
Q100 Simplify 101 /(10 -5)1 22575 88490 4123 30240
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/1525 111/3
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/1525 111/3
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25 111/3 1/3
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25 111/3 1/3 9 7/9 2/33
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/1525 111/3 1/3 9 7/9
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25 111/3 1/3 9 7/9 2/33
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/3 - 31/6 + 21/2/1/2 41/6
Q100 Simplify 101/(10-5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/1525 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/3 - 31/6 + 21/2/1/2 41/6 171/2
Q100 Simplify 101/(10-5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/1525 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/3 - 31/6 + 21/2/1/2 41/6 171/2 2 41/45
Q100 Simplify 101/(10-5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/1525 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/3 - 31/6 + 21/2/1/2 41/6 171/2
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/3 - 31/6 + 21/2/1/2 41/6 171/2 2 41/45 3 3/8
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/s of 17/19)/15/25 111/s 1/s 9 7/9 2/33 Q102 1 69 of 2/s - 31/s + 21/2/1/2 41/s 171/2 2 41/45 3 3/s Q103 An imaginary number is a number that has
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/s of 17/19)/15/25 111/3 1/3 9 7/9 2/33 Q102 1 69 of 2/s - 31/s + 21/2/1/2 41/s 171/2 2 41/45 3 3/s Q103 An imaginary number is a number that has Positive square root
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/s of 17/19)/15/25 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/s - 31/s + 21/2/1/2 41/s 171/2 2 41/45 33/s Q103 An imaginary number is a number that has Positive square root positive square
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/s of 17/19)/15/25 111/s 1/s 9 7/9 2/33 Q102 1 69 of 3/s - 31/s + 21/s/1/s 41/s 171/s 2 41/45 33/s Q103 An imaginary number is a number that has Positive square root positive square negative square
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/s of 17/19)/15/25 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/s - 31/s + 21/2/1/2 41/s 171/2 2 41/45 33/s Q103 An imaginary number is a number that has Positive square root positive square
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/3 - 31/5 + 21/2/1/2 41/6 171/2 2 41/45 33/8 Q103 An imaginary number is a number that has Positive square root positive square negative square negative square negative square root
Q100 Simplify 101/(10 -5)1 22575 88490 4123 30240 Q101 (73/6 of 17/19)/15/25 111/3 1/3 9 7/9 2/33 Q102 1 69 of 3/3 - 31/5 + 21/2/1/2 41/6 171/2 2 41/45 33/8 Q103 An imaginary number is a number that has Positive square root positive square negative square negative square negative square root Q104 An improper fraction is classified as
Q100 Simplify 101 /(10 -5)1 22575 88490 4123 30240 Q101 (7% of 17/19) / 15/25 111/3 9 7/9 233 Q102 1 69 of % - 3% + 2½/½ 4½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square negative square negative square negative square negative square Q104 An improper fraction is classified as 3/2
Q100 Simplify 101 /(10 -5)1 22575 88490 4123 30240 Q101 (7% of 17/19) / 1525 11½ ½ 9 79 2233 Q102 1 69 of ¾ - 3½ + 2½/½ 4½ 17½ 2 4½ 3 ½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square
Q100 Simplify 10! /(10 -5)! 22575 88490 4123 30240 Q101 (7% of 17/19)/1525 11½ ½ 9 7/9 2233 Q102 1 69 of ½ - 3½ + 2½/½ 4½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square
Q100 Simplify 101 /(10 -5)1 22575 88490 4123 30240 Q101 (7% of 17/19) / 1525 11½ ½ 9 79 2233 Q102 1 69 of ¾ - 3½ + 2½/½ 4½ 17½ 2 4½ 3 ½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square
Q100 Simplify 10! /(10 -5)! 22575 88490 4123 30240 Q101 (7% of 17/19)/1525 11½ ½ 9 79 233 Q102 1 69 of ½ - 3½ + 2½/½ 4½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square negative square negative square root Q104 An improper fraction is classified as 3/2 3½ ¾ ¾ ¾ ¾ ¾ ¾ ¾ ¾ ¾ ¾ ¾ ¾ ¾
Q100 Simplify 10! /(10 -5)! 22575 88490 4123 30240 Q101 (7% of 17/19) / 1525 11½ ½ 9 79 2233 Q102 1 69 of ½ - 3½ + ½ /½ 4½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square negative square negative square root Q104 An improper fraction is classified as 3/2 3½ ¾ Q105 convert ratio 4:5 to percentage
Q100 Simplify 101 /(10 -5)1 22575 88490 4123 30240 Q101 (7% of 17/19)/15/25 11½ ½ 9 7/9 2/33 Q102 1 69 of ¾ - 3½ + 2½/½ 4½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square 104 An improper fraction is classified as 3/2 3/3 ½ Q105 convert ratio 4:5 to percentage 0.45
Q100 Simplify 10! /(10 -5)! 22575 88490 4123 30240 Q101 (7% of 17/19) / 1525 11½ ½ 9 79 2233 Q102 1 69 of ½ - 3½ + ½ /½ 4½ 17½ 2 41/45 3¾ Q103 An imaginary number is a number that has Positive square root positive square negative square negative square negative square root Q104 An improper fraction is classified as 3/2 3½ ¾ Q105 convert ratio 4:5 to percentage

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Q117 Simplify without using table logs12.5 + logs2

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0 4	
O 2	
Q118 The LCM of 14a2b	² ,7ab and 28ab ² is
○ 28ab	
○ 28ab²	
○ 56b²a²	
28a ² b ²	
Q119 The ratio by weigh	it (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	
Q120 Which of the these	e is an imaginary
√9	•
O 25	
○ √-4	
O 3 ² / ₅	