eExam Question Bank

Coursecode:

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Question Type	Question	A	B	C	D	Answer	Remark
FBQ	If A' is a complement of set A, the equivalent of (A')' is ____	A					eExam
FBQ	The limiting value of $\frac{7n+5}{2n-3}$ as $n \to \infty$ is ____	$\frac{7}{2}$	3½				eExam
FBQ	Let x be the required Arithmetic Mean, then if 8, x, 16 form three successive terms in the Aritmetic Progression,x is ____	12	twelve				eExam
FBQ	The distance between points A(-3, 4) and B(2, 5) is ____ __units	$\sqrt{26}$					eExam
FBQ	If $Z_1 = 2+3i, and Z_2 = 3+4i, then \frac{Z_1}{Z_2}$ is ____	$\frac{18+i}{25}$					eExam
FBQ	In solving the quadratic equation $x^2 - 4x + 3 = 0$, the roots are ____	real					eExam
FBQ	____ is the polar form of a complex number Z = 3 + 4i.	Z = r(Cos45 + isin45)					eExam
FBQ	Let Z = 5 + 12i, The value of |Z| is ____	13	thirteen				eExam

☐								
☐	FBQ	In the solution of a quadratic equation $$x^2 - 4x + 5 = 0$$, the roots are [ ]	imaginary					eExam
☐	FBQ	The value of $$\frac{3n2 - 5n + 4}{4n2 + 7n + 1}$$ as $$n \to \infty$$ is [ ]	$\frac{3n}{7}$	3n diviede by 7				eExam
☐	FBQ	Let x be the required Geometric Mean (GM) between a and b. Then a, x, b, are the successive terms in the Geometric Progression. The GM is [ ]	\ [\sqrt{ab}\]	squre root(ab)				eExam
☐	FBQ	The Solution for x in \[\frac{ | x + 2|} {4} \leqslant 3\] is [ ]	\[\minus 14 \leqslant x \leqslant 10\]					eExam
☐	FBQ	The solution set of \[\frac {x+2} {x + 1} = 1\] = [ ]	\ [x\leqslant -2 and x \geqslant -1\]					eExam
☐	FBQ	In a geometric series, the first term is 7, the last term is 448, and the sum is 889. The common ratio, r is [ ]	r = 2					eExam
☐	FBQ	The sum of the first n terms of a series is \ [2n^2 - n\]. The nth term is [ ]	4n - 3					eExam
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☐	MCQ	Which term of the Arithmetic Progession 49, 44, 39, . . . , is 9?	Second term	Nineth term	Seventh term	First term	B	eExam
☐	MCQ	Find the equation of the circle center (2 -3) and radius 4	\[y^2 - x^2 -4x + 6y - 3 =0\]	\[y^2 + x^2 -14x + 6y - 3 =0\]	\[y^2 + x^2 -4x + 6y - 3 =0\]	\[y^2 + x^2 -4x + 6y -13 =0\]	C	eExam
☐	MCQ	Express 5 + 12i in a polar form, i.e in form of \[Z = r(cos{\theta} + isin{\theta})\]	Z = 13(Cos45 + isin45)	Z = 7(Cos45 + isin45)	Z = 15(Cos45 + isin45)	Z = 13(Cos45 - isin45)	A	eExam
☐	MCQ	As in no 5 above, find \[Z_{1}Z_{2}\].	41 + 15i	29 + 15i	29 - 15i	15 + 29i	B	eExam
☐	MCQ	This question is for nos 5 and 6. Let \[Z_{1} = 5 + 2i\] and \[Z_{2} = 7 + 3i\], find \[Z_{1} + Z_{2}\].	2 - i	12 + 5i	12 - 5i	2 + i	B	eExam
☐	MCQ	If \[Z_{1} = 3 + 2i\] and \[Z_{2} = 4 + 3i\], find the distance between \[Z_{1}\] and \[Z_{2}\].	2	-2	\[\sqrt 2\]	2i	C	eExam
☐	MCQ	Solve for x if \[|x - 5|\leqslant 4\]	\[1 \leqslant x\leqslant -9\]	\[7 \leqslant x\leqslant 9\]	\[2 \leqslant x\leqslant 9\]	\[1 \leqslant x\leqslant 9\]	D	eExam
☐	MCQ	If \[U_{n} = 2n^2 - 4n + 5, evaluate U_{1}\]	2	3	4	5	B	eExam
☐	MCQ	What are the values of x for which \[\frac {x^3 + 3x^2 + 2x} { x^2 + 5x +6} = 0\]	x = 0, 1 or 3	x = 0, 1 or -3	x = 0, -1 or 3	x = 0, -1, or -2	D	eExam
☐	MCQ	The sum of the first and third terms of a Geometric progression is \[6\frac{1}{2}\] and the sum of the second and fourth terms is \[9\frac{3}{4}\].Find the first term.	4	3	2	5	C	eExam
☐	MCQ	Find the number of terms in an Arithmetic Progression whose first term is 5 common difference 3 and sum is 55	-8	5	7	9	B	eExam
☐	MCQ	Solve the inequality \[(x -3)(x- 2) \leqslant 0\]	\[2 \leqslant x \leqslant -3\]	\[\sqrt 2 \leqslant x \leqslant 3\]	\[2 \leqslant x \leqslant 3\]	\[2 \leqslant x \leqslant \sqrt3\]	C	eExam
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☐	MCQ	The sum of an A.P. is 20, the first term being 8 and the common difference – 2. Find the number of terms in the series.	4 or 5	3 or 5	5 or 2	2 or 3	A	eExam

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☐	MCQ	Evaluate\[\frac {3n^2 -14n + 6}{n^2 + 7n + 2}\]	4	5	3	6	C	eExam
☐	MCQ	How many read Science today if and only if, they read Caravan?	20	2	30	40	B	eExam
☐	MCQ	How many read Caravan as their only magazine?	20	2	40	30	D	eExam
☐	MCQ	In a survey of 100 families, the numbers that read the most recent issues of various magazinees were found to be as follows: Readers digest = 28, Readers digets and Science today = 8, Science today = 30, Readers digest and Caravan = 10, Caravan = 42, Science today and Caravan = 5, All the three magazines = 3. THE ABOVE IS FOR QUESTIONS 6 - 8. How many read none of the three magazines?	20	30	40	50	A	eExam
☐	MCQ	In a recent survey of 400 students in Palm Ville High College, 100 were listed as smokers and 150 as chewers of gum: 75 were listed as both smokers and chewres of gum. Find how many students are neither smokers nor gum chewers	250	230	225	300	C	eExam
☐	MCQ	The sum of five numbers in an Arithmetic Progression is 25 and the sum of their squares is 165. Find the common difference.	2	\[\pm{2}\]	-3	-2	B	eExam
☐	MCQ	Which term of the Arithmetic Progession 49, 44, 39, . . . , is 9?	Second term	Nineth term	Seventh term	First term	B	
☐	MCQ	Find the equation of the circle center (2 -3) and radius 4	\[y^2 - x^2 -4x + 6y - 3 =0\]	\[y^2 + x^2 -14x + 6y - 3 =0\]	\[y^2 + x^2 -4x + 6y - 3 =0\]	\[y^2 + x^2 -4x + 6y -13 =0\]	C	
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☐	MCQ	The sum of the first and third terms of a Geometric progression is \[6\frac{1}{2}\] and the sum of the second and fourth terms is \[9\frac{3}{4}\].Find the first term.	4	3	2	5	C	
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