FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA COURSE- MAT 111

BY CLEVER-B & ANOMALOUS

- 1. In an examination, 18 students passed MAT111, 17 students passed PHY113, 11 students passed both subject. Find the number of students that passed MAT111 only. A: 5 B: 6 C: 7
- 2. Suppose set R={2,4,6,8,10,12,14,16,18,20}, find the number of elements in set R. A: 7 B: 9 C: 10
- 3. In an examination, 25 students passed MAT112 while 22 students passed STA117. If 15 students passed both courses and 2 students failed both courses. Find the total number of students that sat for the examination. A: 32 B: 33 C: 34
- 4. A mapping g: A→B in which all the elements of domain of g are mapped into a single element in the co-domain is called. A: Composite mapping B: Constant mapping C: One-one mapping
- 5. Given two non-empty sets A and B, if there is a rule which links that element in set A to a unique element in set B, then such a rule is called. A: Range B: Co-domain C: Mapping
- 6. A mapping f: A→ A in which every element in the domain of f is the same as the element of the co-domain is called. A: Identity mapping B: One-one mapping C: Onto-mapping
- 7. Determine the domain D of the mapping f: x→2x-3, if C={-3,-1,5} is the range and f is defined on D. A: {0,1,4} B: {1,2,4} C: {1,3,5}
- 8. Let f: X→Y be a mapping. If every element of the co-domain is an image of at least one element in the domain, the mapping f is called. A: One-one mapping B: Onto-mapping C: Constant mapping
- 9. If X={2,4,6}, determine the number of power set of X denoted as n{P(X)}. A: 7 B: 8 C: 9
- 10. Given set X={1,2,3} and set Y={3,1,2}, which of the following statement is true for X and Y. A: X=Y B: X≠Y C: X≤Y
- 11. Given that P={1,3,5,7} and Q={2,5,6,8,9}, determine P∪Q. A: {1,3,5,8,9} B: {1,2,4,6,9} C: {1,2,3,5,6,7,8,9}
- 12. If set F={x: (2<x≤5)∪(9<x<12)}, list the members of set F. A: {3,4,5,10,11} B: {3,4,5,7,11} C: {2,3,4,5,10}
- 13. Given that X={x: 3<x<6} and Y={x: 4≤x≤8}, find X∩Y. A: {5,6} B: {4,5} C: {3,7}
- 14. If X&cap,Y=Φ then X and Y are said to be. A: Finite sets B: Disjoint sets C: Null sets
- 15. Given the universal set μ={1,2,3,4,5} and P={1,2,4}, Q={2,4,5}, find P¹ ∩ Q. A: {1} B: {2} C: {5}
- 16. If set P={even numbers} and Q={x: 7<x≤16}, list the elements of P∩Q. A: {2,6,12,16} B: {2,4,8,12} C: {8,10,12,14,16}
- 17. Let f: X→Y and g: Y→Z be mappings on the set of real numbers defined by f(x)=x+1 and g(y)=(y+1)². Find gof. A: x²+4x+4 B: x²+2x+3 C: x²-3x+1
- 18. Determine the domain D of the mapping g: x→2x²-1, if R={1,7,17} is the range and g is defined on D. A: {1,-1,2,-2,3,-3} B: {4,-4,3,-3,5,-5} C: {1,2,3}

- 19. Given the universal set μ={1,2,3,4,5,6} where X={2,4,6} and Y={1,2,6}, find (X∩Y)^c. A: {1,4,5} B: {1,3,4,5} C: {2,4,5,6}
- 20. Given the universal set μ={1,2,3,4,5,6,7,8} where A={1,3,5,7}, B={1,2,5,7} and C={3,6,7,8}. List the members of A^c∩B∩C^c. A: {1} B: {2} C: {3}
- 21. which of the following best describe a set? A: A set is any collection of objects such that given an object it is possible to determine weather that object belong to the given collection or not.

 B: A set is collection of objects C: The set of all letters of the alphabet.
- 22. A set can be completely specified by one or combination of the following
br /> i. By listing all of the member of the set.
br /> ii. By describing the element of the set.
 iii. By enclosing within braces {} any general element with a clearly define properly. A: I ,II and III B: I and II only C: III only
- 23. Consider the Venn Diagram below
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 vhere M,P and C represent all 100 students of F.U.T Minna who offered Math111,Phy113 and Chem111 respectively
 + How many offered only course ? A: 39 B: 50 C: 47
- 24. Consider the Venn Diagram below

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 /> Where M,P and C represent all 100 students of F.U.T Minna who offered Math111,Phy113 and Chem111 respectively
 How many offered at least one course? A: 90 B: 39 C: 79
- 25. Consider the Venn Diagram below

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 /> Where M,P and C represent all 100 students of F.U.T Minna who offered Math111,Phy113 and Chem111 respectively
 How many offered exactly two courses? A: 40 B: 51 C: 11
- 26. Consider the Venn Diagram below

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 /> Where M,P and C represent all 100 students of F.U.T Minna who offered Math111,Phy113 and Chem111 respectively
 How many offered at least two courses? A: 51 B: 39 C: 90
- 27. Consider the Venn Diagram below
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 Where M,P and C represent all 100 students of F.U.T Minna who offered Math111,Phy113 and Chem111 respectively
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- 29. Consider the Venn Diagram below

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 /> How many offered Chem 111 ? A: 57 B: 23 C: 34
- 30. Consider the Venn Diagram below
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 where M,P and C represent all 100 students of F.U.T Minna who offered Math111,Phy113 and Chem111 respectively
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- 31. One of the following ideas best described a function. A: A rule of correspondence beween two sets B: Equation or formular involving variables and constants C: A rule that assigns real number to real number.
- 32. Which of the following best described the concept of partial fraction? **A: It involves the process** of spliting a given rational algebraic fraction into sum of simpler proper fractions B: It involves the process of spliting a given algebraic fraction into sum of simpler proper fractions C: It involves the process of spliting a given polinomia fraction into sum of simpler proper fractions
- 33. Express (10-2x)/((x-3)(x-1)) in partial fractions. A: 2/(x-3)+4/(x-1) B: 2/(x-3)-4/(x-1) C: 2/(x-1)+4/(x-3)

- 34. Given that (8x-28)/((x-2)(x-4))=a/(x-2)+b/(x-4).
 Find the values of A and B. A: a=6, b=2 B: a=2, b=6 C: a=6, b=-2
- 35. Express (x+7)/(x² -7x+10) in partial fractions. A: 4/(x-5)-3/(x-2) B: 3/(x-5)-4/(x-2) C: 4/(x-5)+3/(x-2)
- 36. Express (35x-14)/(7x-2)² in partial fractions. A: 4/(7x-2)² -5/(7x-2)

 B: B. 5/(7x-2)-4/(7x-2)² C: C. 5/(7x-2)+4/(7x-2)²
- 37. Given that $(42x+44)/(6x+5) < \sup > 2 < \sup > = A/(6x+5) + B/(6x+5) < \sup > 2 < \sup >$, find A and B. A: A=-7, B=-9 B: A=-7, B=9
- 38. If in partial fraction, (x < sup > 2 < / sup > +3x-10)/(x < sup > 2 < / sup > -2x+3) = 1+5B/((x+1)(x-3)), find the value of B. A: 1 B: 7 C: -7
- 39. The fraction (2x < sup > 3 < sup > +3x < sup > 2 < / sup > -54x + 50)/(x < sup > 2 < / sup > +2x 24) is equivalent to. A: 2x 1 + (4x 26)/((x + 6)(x 4)) B: 2x 1 + (26 + 4x)/((x + 6)(x 4)) C: 2x 1 (4x 26)/((x + 6)(x 4))
- 40. If 5x-7=A(x-2)+B(x-1), find the values of A and B. A: A=3, B=2 B: A=-3, B=2 C: A=3, B=-2
- 41. Write 14x/(6x < sup > 2 < /sup > -x-2) as a sum of two fractions. A: 4/(3x-2)+2/(2x+1) B: 4/(7x-2)-2/(2x+1) C: 4/(2x+1)-2/(3x-2)
- 42. Repeated factors in the denominator of the algebraic expression of the form (ax+b)² give partial fractions of the form. A: B/(ax+b)² B: A/(ax+b)+B/(ax+b)² C: Ax/(ax+b)+B/(ax+b)²
- 43. An irreducible quadratic factor in the denominator of the rational expression of the form ax² +bx+c gives rise to a partial fraction. A: (Ax+B)/(ax² +bx+c) B: A/(ax² +bx+c)+B/(ax+b) C: Ax/(ax+b)+B/(ax+b)²
- 44. The general form of the fraction 1/(ax < sup > 2 < / sup > +bx+c) + 1/(ax+b) in partial fractions where ax < sup > 2 < / sup > +bx+c is irreducible is. A: A/(ax < sup > 2 < / sup > +bx+c) + B/(<math>ax+b) B: (Ax+B)/(ax < sup > 2 < / sup > +bx+c) + (Bx+C)/(ax+b)
- 45. The fraction x/(x² -b²) can be expressed in partial fraction as. A: <math display="block">(Ax+B)/(x² -b²) B: 1/2(1/(x-b)-1/(x+b)) C: 1/2(1/(x-b)+1/(x+b))
- 46. if (6x² +17x+6)/(x(x+2)(x+3))=A/x+B/(x+2)+C/(x+3), find the value of A+B-C. A: 1
 B: 0 C: 3
- 47. If (x+1)/(x < sup > 2 < / sup > -1) + (x-2)/(x < sup > 2 < / sup > -4) = A/(x-1) + B/(x+2), find A+B. A: 2 B: 1 C: 3
- 48. If (2x+2)/(x < sup > 2 < / sup > +3x+2) + (x+3)/(x < sup > 2 < / sup > +x-6) = A/(x+2) + B/(x-2), then A+B is equal to. A: 1 B: 2 C: 3
- 49. Resolve the expression $\frac{(8x-6)}{(x-5)y-2} 4x-21$ into partial fractions. A: -3/(x+3)-5/(x-7) B: 3/(x+3)+5/(x-7) C: 5/(x+3)+3/(x-7)
- 50. Resolve the expression -((x+3)/(x² +x-6)) into partial fractions. A: 1/(2-x) B: 1/(x-2) C: -1/(x-3)
- 51. Resolve into partial fractions(4x-13)/((x+8)(x-7)) into its partial fractions. A: 2/(x+8)-2/(x+7) B: 3/(x+8)+1/(x-7) C: 3/(x-7)-1/(x+8)
- 52. Resolve into partial fractions 1/(x(x < sup > 2 < /sup > -1)). A: 1/(2(x-1))-1/(2(x+1))-1/x B: 1/(2(x-1))+1/(2(x+1))+1/x C: 2/((x-1))+2/((x+1))+1/x
- 53. The third term of an AP is 6 and the seventh term is 30. Determine the common difference and the first term. A: 6 and -6 B: -6 and 6 C: 5 and 6

- 55. Given that; 3x-2, 5x-3 and x+6 are three consecutive numbers in a GP. Determine the possible quadratic equation for the progression. A: 25x²+46x+21=0 B: 22x²-46x+21=0 C: 22x²-46x-21=0
- 56. If the first term of an AP is 7/2 and the common difference is 2/3. Find the sum of the first 22nd term. A: 232 B: 231 C: 234
- 57. Given that; 3x-2, 5x-3 and x+6 are three consecutive numbers in an AP. Determine the value of x for the progression. A: 3/3 B: 1/3 C: 5/3
- 58. The second term of a GP is 49 and the 4th term is 2401. Find the common ratio of the GP. A: 5 B: 6 C: 7
- 59. Given that; 5x+3, 6x-2 and 4x+1 are three consecutive numbers in a GP. Determine the quadratic equation for the progression. A: 16x² -41x+1=0 B: 16x² +41x+1=0 C: 16x² -41x-1=0
- 60. If the first term of an AP is 7/3 and the 21st term is 47/2. Find the sum of the terms. A: 3255/6 B: 3255/12 C: 3255/9
- 61. Given that; 5x+3, 6x-2 and 4x+1 are three consecutive numbers in an AP. Determine the value of x for the progression. A: 7/3 B: 8/3 C: 4/3
- 62. The first and the fifth terms of a GP are 256 and 625 respectively. Determine it common ration. A: 1/4 B: 5/4 C: 7/4
- 63. If the first term of an AP is 24 and the common difference 1/3. Find the 23rd term. A: 92/3 B: 94/3 C: 95/3
- 64. Find the sum of the first 50 natural numbers; A: 1270 B: 1265 C: 1275
- 65. The sum of the arithmetic progression 4,, 76 is 1920. Find the number of terms. A: 48 B: 45 C: 40
- 66. Find the 10th term of the progressions: 3,5,7,....... A: 15 B: 17 C: 21
- 67. Find the 15th term of the pregression: 15,9,3,.... A: -69 B: 69 C: 59
- 68. The third term of an arithmetic progression is 10 and the seven term is 34. Find the first term and the common difference. A: -2 and 6 B: -2 and -6 C: 2 and 6
- 69. The second term of an AP is -4 and the sixth term is -24. Determine the first term. A: 1 B: -1 C: 5
- 70. The second term of an AP is -4 and the sixth term is -24. Find the common difference. A: -5 B: 5 C: 1
- 71. The second term of an AP is -4 and the sixth term is -24. Find the sum of the first twenty terms of the progression if the first term is one and the common difference is minus five. A: -930 B: 930 C: 903
- 72. Find the sum of the first 100 natural number: 1+2+3+4+5+......+ n. A: 5505 B: 5050 C: 5550
- 73. Find the sum to infinity of the series: 20+ 4+ 0.8 + 0.16 + 0.032 + A: 25 B: 16 C: 20

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d.B=-13, find the value of x+1 and	the binomial expans ron of (1+2) - (p)	(Ans) 5
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2) In the expansion of (1+2X), what is the Coefficient of X4?	(Ans) (1-1)(1-2n)(1-3n)x+	(Ans) 2
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24) Evaluate the factorial expression		Into its
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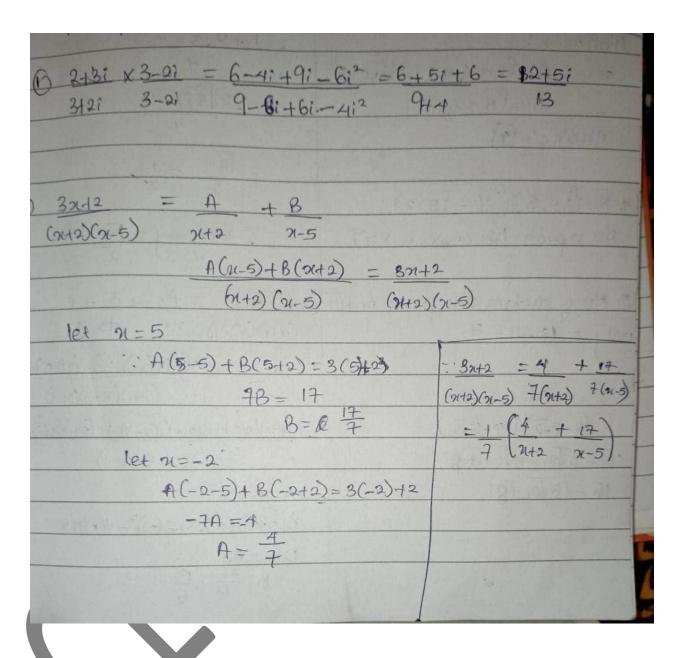
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Resolve 3x+2 into period fraction 7+3/ (2+2)(2x-5) The form Self 7, 21-3i, 7, 2-2+5i, blavorine Self 7, 21-3i, 7, 2-2+5i, blavorine Self in African Cose in terms of multiple craph 7, 22 in the form q+5i. 7, 1+2 Self 3x, 4, 5 ft Self 2x, 5 ft Sephiber to the form q+5i. 7, 1+2 Self 3x, 4, 5 ft Self 2x, 5 ft Sephiber to the form q+5i. 7, 1+2 Self 3x, 4, 5 ft Self 2x, 5 ft Sephiber to the form q+5i. 7, 1+2 Self 3x, 4, 5 ft Self 2x, 5 ft Sephiber to the form q+5i. 8 conven the liabur self set the members of AnBric 9 conven that X=(12x3) and self Y=(3,12) 2 Point which of the following statements is breafing 4 conven that X=(2x3) and self Y=(3,12) X to an examination, 18 statements fassed 1		
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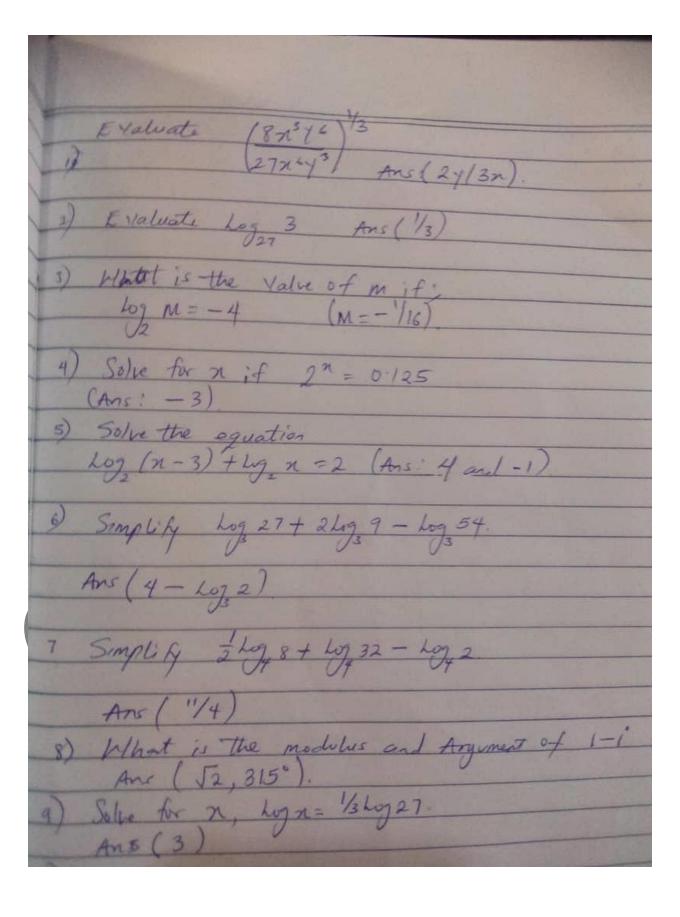
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A= (1,959) C= (8,6984) B=(1,2,54)	1 1+53:+53:+3	=
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(3 x= 6,2.3) 4= 8,124	= \frac{1}{2} \frac{1}{2}	
the open but organ is X=Y	$= \frac{1}{1} $	Ξ
5 No cy students that passed make		(10)
only = 18-11=7	(x+1)(x2-9) 71+1 xt3 2-3	00
6 Z=4-2/21: ZZ	(244)(243)(24-3)	(h) x-5
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16-16/21+81	= let x=-3	
	B(-8+1)(-3-3)=(-3)^2-4(+3)+5	
v.	12 = 26 8 = 26 = 13 12 = 6	
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T T -1+21	
(9 Z=1-31, 72=-2+5i	fel x=-2 8(-2-3)(-2+3)=(+2+1)-2-5
1. X2 = (1-31)(-2131)	208 = -7
7,12, 1-3(+(-X+51)	8 = ===
= -2+51+61-1512	tet x=2
1-31-2,+51	A (212)(2-3)(013) = 2-5
= 111+13 × 37	-204 = -3
21-1	$A = \frac{3}{20}$
- 1+2i -1-2i	(12) 1-1 x 2-1 = 2-1-21+1
-13-26:+11:-22:	2+1 2-1 4-21+21-1
1+21-21-412	- 1-31
= 9 - 371	5.
5	0(=)
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5 9 - 371 5 5	(3 U- 11, 2, 3, 4, 5, 6 9
GO 1 - AX+B	X= [3,4,6]
3 Ox2+bx+c Ox2-1bx+c	Y= 21,2,63
re Caribi	(xn-1) - 9 6 y
3) - (Ax = - A + B + C + B	$\{y_1,y_2\} = \{1,2,3,4,5\}$
(x+3) (x2-1)(x2-9) 21-2 21-3 21+	-3
- A(240)(0-3)(043)+B(0-3)(0-3)(043)+	(14) UELL, 2, 3, 4, 5, 5
(21-2)(21-2)(91-3)(91-	B) P= {1,2,43 Q= {2,4,53
C (9x-2)(x+2)(x+3)+D (9x-2)(x	+2/2-3) P'n O= ?
(A Sylvatore and a sylvatore	P'={3,5}
	P'nQ= (5)

The state of the s	The same
"(MD=)	
(5) Zi = :	(1) Power = 2" = 2" = 8"
z_1 z_2-4i , z_2-6+7i z_2-4i x z_2-6+7i z_2-4i x z_2-6+7i	Can the Exhaural numbers?
6+7i 6-7i 36-421+42i-19i	M= {3,6,9,12,159
85	FnM= (.)
- (2x2-3)(2-) 2x2-3 x-1	
$\frac{5'+21}{(2n^2-3)(2n-1)} = \frac{42+3(2n-1)+c(2n^2-3)}{(2n^2-3)(2n-1)}$	
$= A \times + B \times - B + 2 \cdot C \times^2 - 3C = 5 + 2C \times C $	
2Cx2=0 -3t-8=5	
C = 0 = 0	
1) 40 x + 35 - 2 + 30 = 100	
AD=12+2+35-21+30=100	I manual state of
1.05-x=100 -x=100-105	AND PROPERTY AND
7==25 N=5	





 $= \frac{2 \times 1 \times y}{3} = \frac{2y}{3n}$ Log 3 => - Log 3 1/3 XI = 1/3. ; M= 2-4 = = 0.125 2 Cancels out 2× = 125 1000

	13. 14.
1) = Ly 8 + Lo 32 - Ly 2	(9) log n = 1/3 lg 27
7/ 2 20/40 1 04	11 00-1 007/3
1 402 23 + Log 25 - Log 2.	Logn = Log 27/3
2 122 22	Logn = Log 3/27
1 x1 x3 kg 2 + 1x5 kg 2 - 1 kg 2 2 2 2 2 2 2	
2 2	Log n = Log 3
3 Lug 2 + 5 Log 2 - 1 Log 2.	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n=3.
4 2 2 4 4	
(8) 1-i, x=1, Y=-1	
Modulus = Jx2ty2	
$= \int_{(1)^{2}+(-1)^{2}}$	
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