13+11=12

KEMENTERI	A .	COURSE COI	,		33 DISCRETE HEMATICS
PENDIDIKAN MALAYSIA		COURSEWORK ASSESSMENT		ASSIGNMENT (B)	
, ·		SESSION		DECEN	MBER 2018
JABATAN MATEMA	ATIK, SAINS DAN KOMPUTER			CLO1	
NAME	Frederict Jack	DURATION	60 MINS	CLO2	
REGISTRATION NO.	OSDIDTI8FII12		- Inno	CL03	20 MARKS
PROGRAMME/ SECTION	DDT2A	TOTAL MARKS 20 MARKS		MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CL01, C3

P. E. N. C. I. L. S. 7 [4 marks]

The diagram shows <u>seven letter cards</u>. A <u>four-letter code</u> is to be formed using <u>four of these</u> cards. Find

(a) The number of different four-letter codes that can be formed.

(b) The number of four-letter codes that begin with a consonant.

Question 2

CLO1, C3

[4 marks]

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

(a) There is no restriction.

(b) The team consists of only 1 monitor and exactly 3 perfects.

Question 3

CLO1, C2

[2 marks]

Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

Question 4

CLO1, C3

[5 marks]

A six-member committee of the PTA of SMK Dato Alan is to be elected from the principal, 5 teachers and 6 parents. Find the number of different committees that can be formed with the condition that

(a) The principal must be elected.

(b) The committee is to consist of the principal, two teachers and three parents.

(c) At least one parent must be elected.

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	Subject:	ie:
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	Question 1	
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0)	Law Law	
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	Question 2.	
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	1 3	
	5 × 4C2	
	= 20	
	Question 3	
	Question 3	¥
	6 P6	
	=720 (2)	
	Question 4	
	(3	
9)	'C, x''(5 b) 'Z, x 5 (2 x 6 c)	
	=462	
c)	Parents Principal Teacher	
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	4 1 1 6cy x'c, x/5c, = 75	

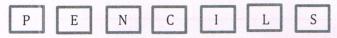
		COURSE COI	DE/	DBM203	3 DISCRETE
KEMENTERL	A	COURSE NAM	ME	MATH	IEMATICS
PENDIDIKAN	POLITEKNIK	COURSEWOR	RK	ASSIGN	NMENT (B)
MALAYSIA	MALAYSIA	ASSESSMEN'	T	ASSIG	VIVILIVI (D)
		SESSION	/	DECEM	1BER 2018
JABATAN MATEMA	TIK, SAINS DAN KOMPUTER			CLO1	
NAME	Perns anale Yantai	DURATION	60 MINS	CLO2	
REGISTRATION NO.	05 DDT 17 F 105 F			CLO3	20 MARKS
PROGRAMME/ SECTION DOTUS		TOTAL MARKS		20 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CL01, C3



[4 marks]

The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

- (a) The number of different four-letter codes that can be formed.
- (b) The number of four-letter codes that begin with a consonant.

Question 2

CL01, C3

[4 marks]

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

- (a) There is no restriction.
- (b) The team consists of only 1 monitor and exactly 3 perfects.

Question 3

CLO1, C2

[2 marks]

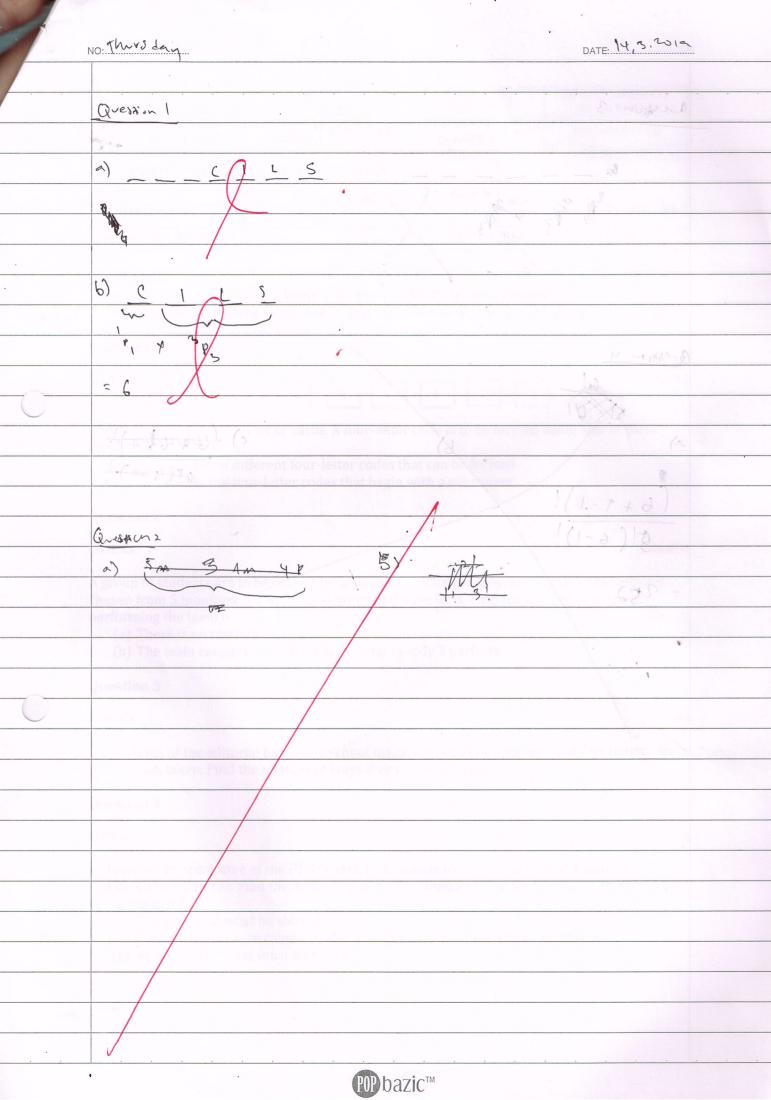
Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

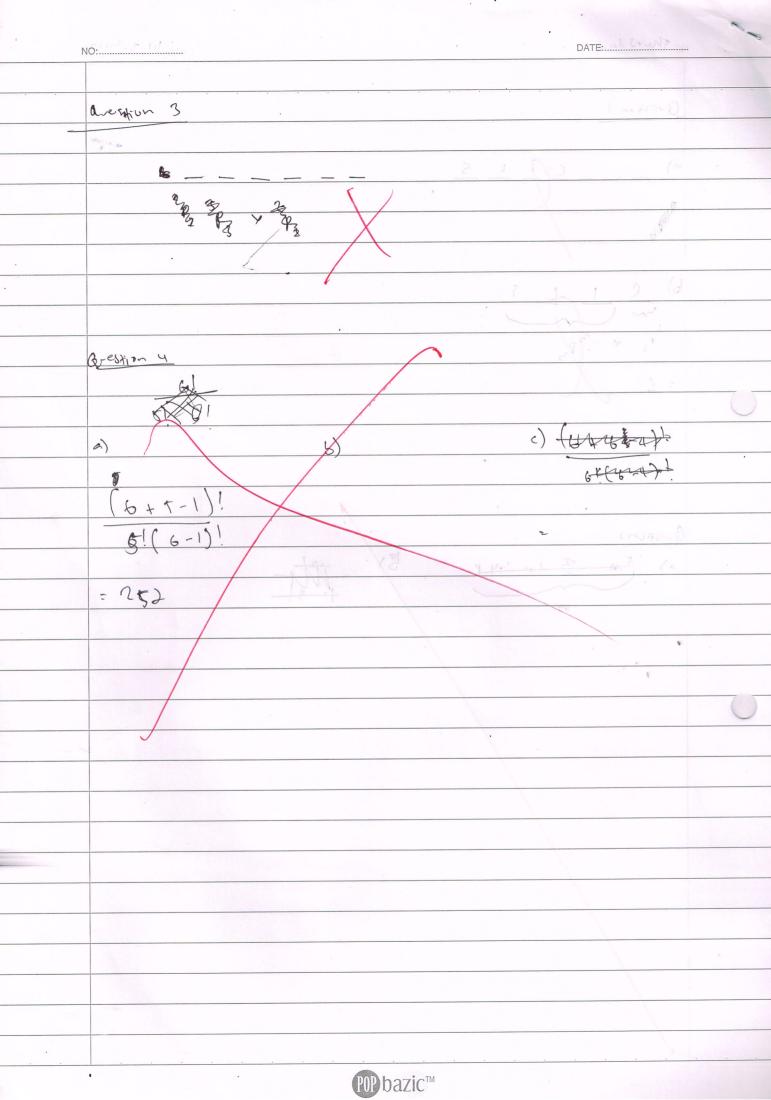
Question 4

CLO1, C3

[5 marks]

- (a) The principal must be elected.
- (b) The committee is to consist of the principal, two teachers and three parents.
- (c) At least one parent must be elected.





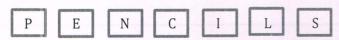
DBM2033 DISCRETE COURSE CODE/ **KEMENTERIA COURSE NAME MATHEMATICS** COURSEWORK **P**ENDIDIKAN ASSIGNMENT (B) MALAYSIA ASSESSMENT SESSION DECEMBER 2018 CL01 JABATAN MATEMATIK, SAINS DAN KOMPUTER 60 CL₀₂ NAME MOHD DANIAL HAZEGA **DURATION** MINS CLO3 20 MARKS REGISTRATION NO. 0500T17F1051 PROGRAMME/ SECTION TOTAL MARKS 20 MARKS DOT 4B

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CL01. C3



[4 marks]

The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

- (a) The number of different four-letter codes that can be formed.
- (b) The number of four-letter codes that begin with a consonant.

Question 2

CLO1, C3

[4 marks]

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

- (a) There is no restriction.
- (b) The team consists of only 1 monitor and exactly 3 perfects.

Question 3

CLO1, C2

[2 marks]

Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

Question 4

CLO1, C3

[5 marks]

- (a) The principal must be elected.
- (b) The committee is to consist of the principal, two teachers and three parents.
- (c) At least one parent must be elected.

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		COURSE COI			33 DISCRETE
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PENDIDIKAN MALAYSIA		COURSEWORK ASSESSMENT		ASSIGNMENT (B)	
		SESSION		DECE	MBER 2018
JABATAN MATEMA	TIK, SAINS DAN KOMPUTER			CLO	
NAME	Muhd Hafiz Hazig	DURATION	60 MINS	CLO2	T /
REGISTRATION NO.	05 DOT18F1140			CLOB	20 MARKS
PROGRAMME/ SECTION	SECTION POTZA TOTAL MARI		ARKS	20	MARKS

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO1, C3								[4 marks]
	Р	Е	N	С	I	L	S	

The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

- (a) The number of different four-letter codes that can be formed.
- (b) The number of four-letter codes that begin with a consonant.

Question 2

CLO1, C3 [4 marks]

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

- (a) There is no restriction.
- (b) The team consists of only 1 monitor and exactly 3 perfects.

Question 3

CLO1, C2 [2 marks]

Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

Question 4

CLO1, C3 [5 marks]

- (a) The principal must be elected.
- (b) The committee is to consist of the principal, two teachers and three parents.
- (c) At least one parent must be elected.

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Date:

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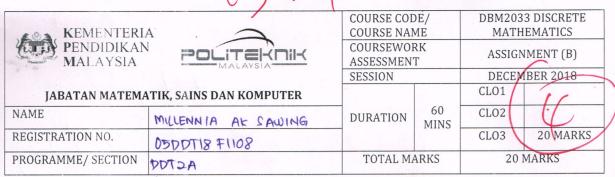
	Question
a)	uC3 = 4 7 P4 = 71
a)	463 = 4 7P4 = 71
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	Questión 2
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5)	4P1 * 4P3
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	= 96
	A STATE OF THE STA
	Questión 3
	6! = 720
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Instructions

• Answer ALL questions. Write your answers in the spaces provided.

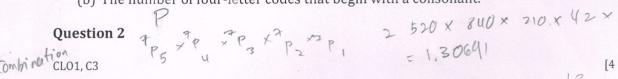
• Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1 CLO1, C3 PENCTILS [4 marks]

The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

(a) The number of different four-letter codes that can be formed.

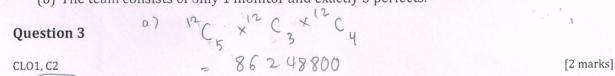
(b) The number of four-letter codes that begin with a consonant.



A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

(a) There is no restriction. Fada Syarat C

(b) The team consists of only 1 monitor and exactly 3 perfects.



Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

Question 4

CLO1, C3 [5 marks]

A six-member committee of the PTA of SMK Dato Alan is to be elected from the principal, 5 teachers and 6 parents. Find the number of different committees that can be formed with the condition that

(a) The principal must be elected.

(b) The committee is to consist of the principal, two teachers and three parents.

(c) At least one parent must be elected.

a) (C, x 6 C 5 x 6 & 6

$$\frac{P}{4} = \frac{N}{3} \frac{C}{P_{1}} - - - \frac{1}{4} \frac{P}{P_{1}} = 288$$

b)
$$\frac{P}{5} = \frac{N}{3} = \frac{C}{2} + \frac{L}{P} = \frac{5}{1440} = \frac{1}{1440} =$$

Question 2

Question 4

a) 1 (x 6 c b) 1 C × 5 C × 6 C 3

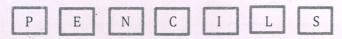
COURSE CODE/ DBM2033 DISCRETE KEMENTERIA **COURSE NAME MATHEMATICS** PENDIDIKAN COURSEWORK ASSIGNMENT (B) .iTEKNIK MALAYSIA **ASSESSMENT** DECEMBER 2018 **SESSION** CLO₁ JABATAN MATEMATIK, SAINS DAN KOMPUTER 60 NAME CLO2 IVY CHELSY **DURATION** MINS REGISTRATION NO. CLO3 20 MARKS 05DDT18 F1001 TOTAL MARKS 20 MARKS PROGRAMME/ SECTION ODT2A

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO1, C3



[4 marks]

The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

- (a) The number of different four-letter codes that can be formed.
- (b) The number of four-letter codes that begin with a consonant.

Question 2

CLO1, C3

[4 marks]

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

- (a) There is no restriction.
- (b) The team consists of only 1 monitor and exactly 3 perfects.

Question 3

CLO1, C2

[2 marks]

Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

Question 4

CL01. C3

[5 marks]

- (a) The principal must be elected.
- (b) The committee is to consist of the principal, two teachers and three parents.
- (c) At least one parent must be elected.

Question 1

- "Pn = n ! (a)
 - 7p4 = 7!

 - = 840
 - . There are 840 ways to perform four-letter codes.

7P4 × 2P2 × P1 = 1680 $^{4}p_{1} \times ^{3}p_{2} \times ^{1}p_{1} = 24$ (b)

. There are 24 ways to perform four-letter codes that begin with a consonant.

Question 2

- (a) $^{12}C_5 \times ^{7}C_3 \times ^{4}C_4 = 2772b$
 - There are 27720 ways to perform a team with no restriction
- = 665280

Question 3 6p6 = 6!

= 720

.. There are 720 ways of numbers they can arrange.

Question 4

6C1 = 6

(b) 63 × 6C2 × 6C, = 1800

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KEMENTERL		COURSE COI	,		3 DISCRETE EMATICS	
PENDIDIKAN MALAYSIA		COURSEWORK ASSESSMENT		ASSIGNMENT (B)		
8		SESSION		DECEM	IBER 2018	
JABATAN MATEMA	TIK, SAINS DAN KOMPUTER			CLO1		
NAME	Armann waganer	DURATION	60 MINS	CLO2	3	
REGISTRATION NO.	05 PPT18 + 1992			CLO3	20 MARKS	
PROGRAMME/ SECTION PDT24		TOTAL MARKS		20 MARKS		

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CL01. C3

P E N C I L S

[4 marks]

The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

- (a) The number of different four-letter codes that can be formed.
- (b) The number of four-letter codes that begin with a consonant.

Question 2

CL01, C3 [4 marks]

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

- (a) There is no restriction.
- (b) The team consists of only 1 monitor and exactly 3 perfects.

Question 3

CL01, C2 [2 marks]

Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

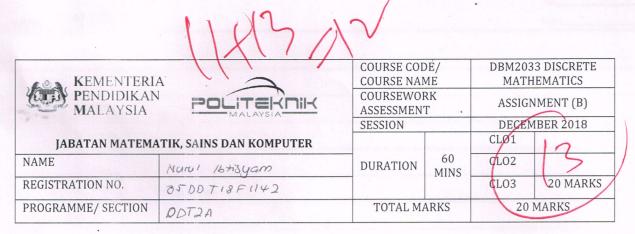
Question 4

CLO1, C3 [5 marks]

- (a) The principal must be elected.
- (b) The committee is to consist of the principal, two teachers and three parents.
- (c) At least one parent must be elected.

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	a) 7 py = \$40	
	6) Fet # 5P1 x 6P3 > 600	
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	12 130 120 120 120 120 120 120 120 120 120 12	
	Question 2	
	$6 \times 3 \times 4 = 12$ students	
		6
	12 cs = 25040 792	
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	b) 501=430 4(3 x 501 x	7
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	Quellion 3	351-321-35
	6P6 = 700 ways	\$
	726	*
	Question 4	
	a) 101 x 1105 = 462	
	a) 101 x 110 3 - 10 5	
	b) 1 C1 x S C2 x 6 C3 = 200	
	6)	
	C) bal x sau x 101 = 30	45
	44.500 44.500 54.500 54.50	
-	6c2 x Sc3 x 1C1 = 150	
	6(3 x 5 Ct) 2 x 1(1 = 200	
	J W L T ((= L O O	1.1.1
	6(4 × SC 3/4 × 1C1 = 75	1461
	665 x 560 x 111 = 6	,*X
	6C6 x SCO x 1 C g = 1	
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Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

[4 marks]

Question 1

CI 01 C3						***************************************	
CLU1, C3							
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The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

- (a) The number of different four-letter codes that can be formed.
- (b) The number of four-letter codes that begin with a consonant.

Question 2

consorant - 3/03 -

CLO1, C3 [4 marks]

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

- (a) There is no restriction.
- (b) The team consists of only 1 monitor and exactly 3 perfects.

Question 3

CLO1, C2 [2 marks]

Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

Question 4

CLO1, C3 [5 marks]

A six-member committee of the PTA of SMK Dato Alan is to be elected from the principal, 5 teachers and 6 parents. Find the number of different committees that can be formed with the condition that

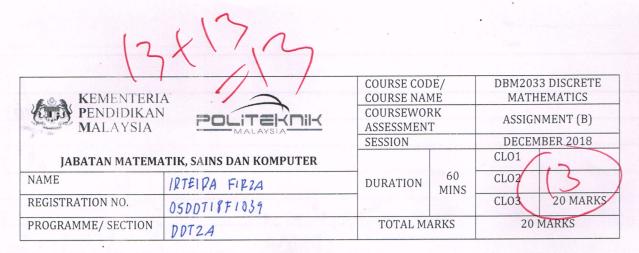
(a) The principal must be elected.

(b) The committee is to consist of the principal, two teachers and three parents.

(e) At least one parent must be elected.

> parents and teachers only?

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	Subject: 06M2033	Date:	1992
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	a) 7P4 = 840 *		
	6) 5P1 x 6P3 = 600 *		
	Consonan+		
	Sensoral .		
	spi 6p3		
	Q.2		
	a) 12(5 = 792 A		
	a) c ₃ = / (2 **		-
0			
	b) 5 C1 x 3 C1 x 4 C3 = 60 x		•
	Q.3		
	6 p 6 = 720 ways *		
	FG - 120 ways xx		
		,	
	Q.4		
	a) 'C1 × 11 C5 = 462 *		
		10.00	
	12		
	b) 'c1 x 5 C2 x 6 C3 = 200 x		
	c) 6C1 x 5C5 = 6		
	c) ${}^{6}C_{1} \times {}^{5}C_{5} = 6$ ${}^{6}C_{2} \times {}^{5}C_{4} = 75$		
	$6_{C_3} \times 5_{C_3} = 200$		
	$6C_4 \times 5C_2 = 150$		
	60 5		
	6C5 × 5C1 = (30)		
	= 461 ×		



Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

[4 marks] CLO1, C3 E C

The diagram shows seven letter cards. A four-letter code is to be formed using four of these cards. Find

(a) The number of different four-letter codes that can be formed. (b) The number of four-letter codes that begin with a consonant.

(combination) Ouestion 2

CL01, C3

A group of students are to be chosen for a students' exchange program. These 5 students are chosen from 5 monitors, 3 assistant monitors and 4 perfects. Find the number of ways of performing the team if

- (a) There is no restriction.

Ouestion 3

(b) The team consists of only 1 monitor and exactly 3 perfects.

Solve $\frac{12}{3}$ $\frac{12}{5}$ $\frac{12$

CLO1, C2

6p,

Six students of the editorial board of a school magazine are to be arranged in a row to have their photograph taken. Find the number of ways they can arranged.

Ouestion 4 (combination)

161

CLO1, C3

6 = committee

[5 marks]

A six-member committee of the PTA of SMK Dato Alan is to be elected from the principal, 5 teachers and 6 parents. Find the number of different committees that can be formed with the 1 C1 × 11 C5 = 4762 condition that

- (a) The principal must be elected.
- (b) The committee is to consist of the principal, two teachers and three parents. (1×3)
- (c) At least one parent must be elected.

60 ... 61 -

No:	

Date:

auntion	1

a) 7 Pu = 840

= 600 #

Austion 2

b) 5 c, × 4 c3 × = 160

Question 3

1p, x 6p, = 720

a) 16 × 11 (5 = 462

b) 1 c1 × 5 c2 × 6 c3

= 200

):.....

Date:

		,				
()	parents	Princ & Teache	r = 6			many E
	-	5		6c1 × 6c5 =	36	
	2	4		6(2 × 6(4 =	225	A SUPERIOR
	3	3		6 C3 × 6 C3 =	400	
<u></u>	4	2	1 x 18	6c4 x 6C2 :	225	(6 = 7
	5			"C5 X "C1	= 36	() () () () () () () () () ()
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Subject:....

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