

 <p>KEMENTERIAN PENDIDIKAN TINGGI</p> <p>POLITEKNIK MALAYSIA KUCHING SARAWAK</p> <p>JABATAN MATEMATIK, SAINS DAN KOMPUTER</p>		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS	
		COURSEWORK ASSESSMENT		TEST 1	
		SESSION		JUNE 2018	
NAME		DURATION	60 MINS	CLO1	20 MARKS
REGISTRATION NO.				CLO2	
PROGRAMME/ SECTION	IPP1			CLO3	
		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

[CLO1, C1-C3]

(a) Simplify the following polynomials.

(i) $(5b^2 - 3b + 1) - (2b^2 + 4b)$

[CLO1, C1]

(ii) $(-2x^3 + 5xy)3xy$

[CLO1, C2]

(iii) $-x^3y^2z \div y^2zx^2$

[CLO1, C3]

[6 marks]

[CLO1, C2]

(b) Express the operations by using BODMAS's rule.

(i) $32 \div 5(4 + 4)$

(ii) $2 + 21 \div 7$

[4 marks]

Question 2

[CLO1, C2]

(a) Make x as the subject in each case:

(i) $-2(x + a) = 2b$

(ii) $\frac{1}{2}x - 3a = 4b$

[4 marks]

[CLO1, C1-C3]

(b) Solve the following equations.

(i) $\frac{5}{x+6} = \frac{2}{2x+6}$

[CLO1, C1]

(ii) $y^2 = -5y - 4$

[CLO1, C2]

(iii) $x^2 - 16x + 4 = 0$ by using the Quadratic formula

[CLO1, C3]

[6 marks]