
 KEMENTERI/ PENDIDIKAN MALAYSIA  JABATAN MATEMATIK, SAINS DAN KOMPUTER		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS	
		COURSEWORK ASSESSMENT		TUTORIAL 3	
		SESSION		DECEMBER 2018	
		DURATION	60 MINS	CLO1	10 MARKS
CLO2					
CLO3					
NAME					
REGISTRATION NO.					
PROGRAMME/ SECTION	IPP1	TOTAL MARKS		10 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 [1 mark]

- (a) Fill in missing index number.

$$2^{\square} \times 2^4 \div 2^5 = 2^{10}$$

CLO1, C2 [2 marks]

- (b) Simplify the indices in the lowest form.

$$8 \times (8^2)^4 \div 8^3$$

Question 2

CLO1, C1 [1 mark]

- (a) Rewrite the expression as single exponent.

$$19^2 \times 19^0 \div 19^4$$

CLO1, C2 [3 marks]

- (b) Simplify the following indices in the lowest form.

$$\frac{2^{n+2} \times 4^{3-2n}}{8^{3n}}$$

Question 3

CLO1, C3 [3 marks]

Calculate the following without using calculator.

$$3^{x-2} = 27^{x+4}$$