

CONCORDIA UNIVERSITY
Department of Mathematics & Statistics

Course	Number	Section(s)	
Mathematics	208/2	All except EC	
Examination	Date	Time	Pages
Final	December 2013	3 Hours	3
Instructors		Course Examiner	
A. Kokotov, F. Romanelli, H. Greenspan, M. Padamadan, R. Rodriguez, U. Tiwari, V. Kalvin		D. Sen	

FORMULAE:

$$A = P(1+i)^n, \quad A = Pe^{rt}, \quad FV = PMT \frac{(1+i)^n - 1}{i}, \quad PV = PMT \frac{1 - (1+i)^{-n}}{i}$$

Special Instructions:

- ▷ Answer all questions.
- ▷ Only approved calculators are allowed.

MARKS

- [10] 1. At a price of \$2.28 per bushel, the supply of barley is 7,500 million bushels and the demand is 7,900 million bushels. At a price of \$2.37 per bushel, the supply is 7,900 million bushels and the demand is 7,800 million bushels.
- (A) Find a price-supply equation of the form $p = mx + b$.
 - (B) Find a price-demand equation of the form $p = mx + b$.
 - (C) Find the equilibrium point.
 - (D) Graph the price-supply equation, price-demand equation, and equilibrium point in the same coordinate system.
- [10] 2. Solve for x in the following equations:
- (A) $(2^{x+1})8^{-x} = 4$
 - (B) $(e^4)^x (e^{x^2}) = e^{12}$
 - (C) $\log_{10} x + \log_{10}(x + 15) = 2$
 - (D) $\log_{10}(x - 1) - \log_{10}(x + 1) = 1$
 - (E) $\log_6(x + 3) + \log_6(x + 4) = 1$

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