NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

B. COMM INSURANCE AND RISK MANAGEMENT

REINSURANCE PRINCIPLES AND APPLICATION – CIN 2102

DECEMBER 2002 1ST SEMESTER EXAMINATION

DURATION : 3 HOURS

INSTRUCTIONS TO CANDIDATES

- 1. Answer any four questions
- 2. All questions carry equal marks
- 1. Discuss the reasons why the reinsurance market is important to the primary market of insurance companies. [25 marks]
- 3. A company has an option of either arranging a risk excess of loss treaty or a quota share treaty. The information available is as follows:

Programme A:	60% Quota share treaty with 20% ceding commission. Subject to a gross acceptance of \$1 000 000	
Programme B:	Risk excess of loss - \$700 00 Premium adjustable at 25% Premium)	
Assuming that (a)	the company's expected OGP i commission and other exper OGP are 15% and 20% respe	nses ratios relative to the
(t	 expected losses in the first ye total recovery from the prop will be \$1 200 000. 	
(i) Which treaty would be profitable?		[10 marks]
comparing the	arious aspects to be taken into benefits, or otherwise, of purc	chasing a quota
snare treaty as	against a risk excess of loss tre	eaty. [10 marks]
	as a Risk Excess of Loss Treaty nged as follows:	covering its motor
First layer 2 nd layer	\$3 000 000 excess of \$6 000 000 excess of	

The following were losses recorded on the motor business:

\$ 50 000 \$ 650 000 \$ 400 000 \$ 3 400 000 \$12 000 000

Show how these losses will affect the reinsured and its reinsurer. [5 marks]

- 3. (a) What is meant by a "table of limits" with regard to proportional reinsurance. What is its purpose? [10 marks]
 - (b) Discuss the various ways by which an accumulation of losses on a property account can occur. [10 marks]
 - (c) Outline five uses of facultative reinsurance. [5marks]

4. (a) What is the significance of each of the clauses below:

- (i) Act(s) in force
- (ii) Stability (index)
- (iii) Reinstatement
- (iv) Offset
- (v) Errors and omissions

[15 marks]

- (b) Discuss the main provision of the following clauses:
 - (i) Cut-through
 - (ii) Follow the fortunes [10 marks]
- 5. (a) A treaty has a reinstatement provision worded as follows: "Pro-rata additional premium as to time and amount". Given Cover Limit of \$500 000 Loss to cover of \$50 000 Annual Premium of \$10 000

Calculate the reinstatement premium where:

- (i) Loss occurs on first day of cover
- (ii) Loss occurs on the last day of cover [5 marks]
- (b) Distinguish between premium reserve deposits and premium portfolio transfers. [5 marks]

- (c) An insurance company has a retention of \$2 000 000 on its property account. It has a 5 line surplus treaty. A proposer requires cover on his factory worth \$14 000 000.
 - (i) How much of the risk can the direct office accept?
 - (ii) Suppose the insurance company accepts the risk and makes maximum use of its surplus facility how much will the company pay and the reinsurers pay if there is a claim of \$3 500 000?
 - (iii) What options are available to the insurance company if it proceeds to issue the proposer with a policy of \$14 000 000 given its current capacity?
 - (iv) Assuming the insurance company has a working excess of loss cover of \$1 500 000 excess of \$500 000 on its surplus retention, what is the ultimate loss payable by insurer on a \$3 500 000 claim.

[25 marks]

- 6. Suggest the information a reinsurer would need to have from a cedant when negotiating a reinsurance contract. Give reasons in each case. [25 marks]
- 7. (a) Describe the following premium portfolio transfer methods:
 - (i) Pro rata
 - (ii) 24th system
 - (iii) Eighths system
- [9 marks]
- (b) Which reinsurance offers a higher commission to the cedant
 between quota share reinsurance and surplus treaty reinsurance? Give reasons for your answer. [5 marks]
- (c) A policyholder whose claim has been accepted but not paid by the insurance company discovers that the company has gone into liquidation. The policyholder then discovers that the company has a 90% reinsurance on the policy he holds and takes legal action to recover the claim from the reinsurers. What is the legal position. [8 marks]
- (d) What is the purpose of sliding scale commission on a proportional treaty? [3 marks]

END OF EXAMINATION