MAY 2010

INSUR ANCE & RISK MANAGEMENT (IRM) EXAMINATION.

P-S-Risk Management and Reinsurance

Total No. of Questions-9]

Roll No.....

Time Allowed—3 Hours

[Total No. of Printed Pages-8

Maximum Marks-100

ETC

Answer all questions.

Marks

1×20 =20

1.	Select	the	Right answer	:	

- (i) When one party to a transaction has relevant information that the other does not have is known as
 - (a) Asymmetric information
 - (b) Perfect competition
 - (c) Moral Hazard
 - (d) Regulations
 - (e) None of the above.
- (ii) A situation is characterized by uncertainty as to whether loss will occur.
 - (a) Subjective risk
 - (b) Fundamental risk
 - (c) Speculative risk
 - (d) Pure risk
 - (e) None of the above.

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(iii) Risk Retention is the tool of

- (a) Risk finance
- (b) Risk control
- (c) Risk mitigation
- (d) Risk avoidance
- (e) None of the above.
- (iv) Maximum possible loss is one of the measures of the severity of loss. Maximum possible loss means
 - (a) "most likely loss"
 - (b) "worst loss that could occur"
 - (c) "most unlikely loss"
 - (d) "all financial losses"
 - (e) None of the above.
- (v) What is the Expected Value if 30 percent earnings on investment of Rs. 20,000 in the mutual fund for the year with a probability of 0.50 or a loss of 15 percent, again with a probability of 0.50.
 - (a) Rs. 10,750
 - (b) Rs. 13,000
 - (c) Rs. 8,500
 - (d) Rs. 21,500
 - (e) None of the above.
- (vi) The mutual exchanging of reinsurance, often in equal amounts, from one party to another, is called
 - (a) Reciprocal trading
 - (b) Quota share treaty
 - (c) Pro rata treaty
 - (d) Non-proportional treaty
 - (e) None of the above.

(vii) Losses below a specified size to the borne by the insured, are called provisions.

- (a) Quota share
- (b) Deductible
- (c) Surplus share
- (d) Facultative treate
- (e) None of the above.

(viii) Mode,

- (a) is the mid-point in a set of data
- (b) is arithmetic average for a set of data

10

- (c) that occurs most frequently in the frequency distribution
- (d) measures how close or distant a group of individual measurements
- (e) None of the above.
- (ix) apply the theory of games of strategy (in contrast to games of chance) to decision making in business and investing.
 - (a) John von Neumann and Oskar Morgenstern
 - (b) Bernoulli
 - (c) Markowitz
 - (d) Keynes
 - (e) Kahneman.
- (x) The method of entrusting the process of risk management to different functional areas is known as
 - (a) Integrated risk management
 - (b) Silo approach
 - (c) Enterprise risk management
 - (d) Both (a) and (b)
 - (e) None of the above.

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- (xi) If an underwriter estimates the maximum amount of damage that would probably occur in the event of an accident with reference to the actual sum insured, it is known as
 - (a) Probable Maximum Loss Underwriting
 - (b) Maximum Foreseeable Loss Underwriting
 - (c) Hedging
 - (d) Numerical rating method Underwriting
 - (e) None of the above.
- (xii) The ratio of actual past losses to their corresponding premium (written or earned) for the same period. This ratio is used in assessing a portfolio of business and in determining rate of premium for renewal. This can be termed as
 - (a) Cover note
 - (b) Deductible
 - (c) Experience rating
 - (d) Burning cost
 - (e) Both (c) and (d).

(xiii) Surplus Share Treaty Reinsurance comes under the

- (a) Pro-rata category
- (b) Non-Pro rata category
- (c) Per occurrence of loss category
- (d) Both (a) and (c)
- (e) None of the above.
- (xiv) Per risk excess treaty comes under
 - (a) Proportional Treaty
 - (b) Non-Proportional Treaty
 - (c) Excess of loss treaty
 - (d) Both (a) and (c)
 - (e) Both (b) and (c).

(xv) Retrocession means

- (a) The reinsuring of reinsurance
- (b) The reinsuring of insurance
- (c) The amount of insurance liability
- (d) The indemnity aspect of the agreement
- (e) None of the above.
- (xvi) A reinsurance contract under which the ceding company has the option to cede and the reinsurer has the option to accept or decline individual risks
 - (a) Facultative treaty
 - (b) Facultative reinsurance
 - (c) Follow the fortunes
 - (d) Reinstatement
 - (e) None of the above.
- (xvii) A form of pro rata reinsurance (proportional) in which the reinsurer assumes an agreed percentage of each insurance being reinsured and shares all premiums and losses accordingly with the reinsured.
 - (a) Quota share Reinsurance
 - (b) Facultative reinsurance
 - (c) Line
 - (d) Facultative treaty
 - (e) Excess of loss.

(xviii) Pure captive insurance companies provide coverage to

- (a) Multi national companies
- (b) Incurred but not reported claims
- (c) Single owners who hold the company
- (d) Agency insurance companies
- (e) None of the above.

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(xix) Munich Re is a Reinsurance company at Domicile of

- (a) Italy
- (b) Switzerland
- (c) Germany
- (d) United States
- (e) London.
- (xx) An incremental commission paid on a retrocession of a reinsurance is known as
 - (a) Cession
 - (b) Retrocession
 - (c) Retention
 - (d) Over riding commission
 - (e) Pool.
- 2. (a) Discuss the characteristics of an imperfectly competitive market with reference 8 to insurance market.
 - (b) Distinguish between subjective and objective risks.
- 3. (a) What is a Risk management matrix ? Give an illustrative matrix.
 - (b) Calculate Mean, Variance, Standard deviation and Coefficient of variation with the given volume of sales 600, 650, 700, 750, 800 ('000s) of 5 days.
- 4. (a) Using expected utility rule, show how the purchase of life insurance by an 6 individual can be justified.
 - (b) Write a brief note on each :
 - (i) Finite risk insurance
 - (ii) Securitization.

Recently a leading automobile manufacturing company, Toyota, is reported to 10 have recalled some of the automobiles from the customers who have purchased from its dealers :

- (i) Why have they recalled the vehicles ?
- (ii) What are the specific risks that the company is exposed to and which they are trying to obviate ?
- 6. (a) List out the requirements of a valid reinsurance contract.
 - (b) Explain the meaning of terms in reinsurance :
 - (i) Reserves
 - (ii) Slip
 - (iii) Portfolio
 - (iv) Retention
 - (v) Over Riding Commission.
- 7. (a) Bring out the difference between coinsurance and reinsurance.
 - (b) "The proportion of total life insurance premiums reinsured is small is comparison with most of the non-life insurance classes". Why reinsurance of life insurance is not popular ? Trace out reasons and explain the process of reinsurance of life insurance.
- 8. (a) Discuss the clauses of the IRDA (General Insurance-Reinsurance) Regulations, 2000 pertaining to procedures for reinsurance arrangements regarding :
 - (i) The period for filing and submission of reinsurance program of every insurer
 - (ii) The powers of the authority in this regard.
 - (b) What is the objective of reinsurance accounting ? In what way is it different 5 from other accounting ?

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- 9. (a) Calculate the profit commission on flat rate at 25% and on sliding scale rate with the given information. Show the difference in profit commission based on flat rate and sliding scale rate.
 - Profit for the year = Rs. 500
 - Premium Income = Rs. 2,000
 - Sliding scale rate = 25% on profit equal to 10% of the premiums of the year + 35% on profit equal to next 10% of the premium of the year + 50% on remaining profit.
 - (b) The Sierra Insurance Company has a gross retention of Rs. 50,00,000 with a 50% of quota share and a 10 line surplus treaty and the balance is facultative the company suffers a loss of Rs. 6,00,00,000. Allocate the loss to the reinsurance.

5

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