Time: 2.30 Hours Marks: 75

NOTE: 1.Q1 is compulsory

- 2. Q2 to Q5 having internal options
- 3. Figures to the right indicate full marks.
- 4. State your assumptions clearly

## Q1.A State True or False (any 8).

(08)

- 1. Risk Measurement involves tactical and Strategic decisions to control risk
- 2. Credit Risk is alternatively called as Default Risk
- 3. Beta less than 1 indicates that the security is theoretically more volatile than the market
- 4. Basis= Future price Spot Price
- 5. In the money Option leads to negative cash flows to the holder if it were exercised immediately
- 6. Markowitz Risk Return Model is also called as Modern Portfolio Theory
- 7. Value at risk measures the potential loss in value of a risky asset or a portfolio
- 8. Option Premium is paid by Option seller to the Option buyer
- 9. Actuaries are professionals who apply mathematics to financial problems
- 10. Translation exposure in Exchange rate risk impacts the future cash flows of a firm.

# Q1.B Match the column (any 7)

**(07)** 

	Column A		Column B
i	Risk Register	a	Call and Put
A.			
ii	Arbitrage	b	Futures
iii	Options	c	Pure risk
iv	Standardized exchange traded contracts	d	Exchange of cash flows between two
19°5			parties
V	Forwards	e	Higher risk higher returns
vi	Swaps	f	Master document that captures all the
5,00			possible risk in a project
vii	Modern Portfolio Theory	g	More Risky project
viii	Systematic Risk	h	Profit from price difference in two
			markets
ix	Beta ≥1	i	Risk of failure of systems, processes and
205			people in the organization
X	Operational Risk	j	No standardized contract

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# Paper / Subject Code: 46015 / Finance: Risk Management

Q.2) a) Distinguish between Risk Measurement and Risk Management. (08)
Q.2) b) Explain Diversification? State the techniques used for Diversification. (07)
OR
Q.2) c) What is Derivatives? Explain the types of Derivatives. (08)
Q.2) d) Explain Arbitrage? State the techniques of Arbitrage. (07)
Q.3) a) Explain the challenges of Risk assurance in an organization. (08)
Q.3) b) Define Stakeholder? How stakeholders can be managed. (07)
OR

# Q.3) c) The following is the information of Stock A and Stock B under the possible states of nature: (15)

State of nature	Probabilit	y S	Returns A (%)	Returns B (%)
1	0.10	53	5%	0%
2	0.30	D P. S.	10%	8%
3	0.50	19,000	15%	18%
4	0.10	S & E S S S S S S S S S S S S S S S S S	20%	26%

- (i) Calculate the expected return of A and B
- (ii) Calculate the Standard deviation of Stock A and B
- (iii) If you want to invest in any one stock, which stock would you prefer
- Q.4) a) Explain the powers, functions and duties of IRDA (08) Q.4) b) what is Actuaries? Explain the role of Actuaries (07)

#### OR

# Q.4) c) From the following information, calculate Beta (β) of a security

Year	Return on security (%)	Return on Market Portfolio (%)
1		AS
2		13
3	\$ <b>17</b> 000000000000000000000000000000000000	12
4		14
5075000		15

(08)

(07)

### Q.4) d) Expected losses are given in the table below:

Loss Value (in Rs.)	Probability
50,000	0.30
10,000	0.60
	0.10

Find the fair premium if:

- (a) Policy provides full coverage
- (b) Underwriting cost = 12% of pure premium
- (c) Claims are paid at the end of the year
- (d) Interest rate = 8%
- (e) Expected claim cost = Rs.900
- (f) Fair profit = 10% of pure premium

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Q.5) a) Explain Risk and the three lines of Defe	Pense.	(08)
Q.5) b) Explain Enterprise Risk Management M	Matrix.	(07)
OR		7 P
O. 5) a) Write Chart notes on (Any Three)		(15)
Q.5) c) Write Short notes on (Any Three)	247436674	(12)
i) Reinsurance		7.0
ii) Bancassurance		001
iii) Expected Claim cost		49,06
iv) Enterprise Risk Management		
v) Quantitative Risk Measurement		O V

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