## **PAK Test Aid**

Enterprise Risk Management (ERM) Exam Fall 2015 Edition

Solvency II
Reinsurance
Risk Aggregation
Coherence Risk Measure
Tail Dependency
Strategic Risk Management
Operational Risk
Principles-Based Reserves and Capital
Extreme Value Theory
Economic Capital
Stress Testing
Copula
KRD

## **Mock Question Sample**

**1.** (9 points) PAK Life is setting up an asset portfolio for its liability portfolio (with \$1,000 million in fair value) with the following key rate durations.

Term (Years)	1	5	10	20	30
Key Rate Duration (KRD)	0.5	0.8	1.4	2.1	1.2
	•	•	•	•	

Scenario 1:

Term (Years)	1	5	10	20	30
Spot Curve Shift	+2%	+1%	0%	+1%	+2%

Scenario 2:

Term (Years)	1	5	10	20	30
Spot Curve Shift	+2%	+1%	0%	-1%	-2%

Scenario 3:

Term (Years)	1	5	10	20	30
Spot Curve Shift	+1%	+1%	+1%	+1%	+1%

- (a) (3 points) Match the following movements to the scenarios listed above and calculate the dollar impacts.
  - (i) Level movement
  - (ii) Steepness movement
  - (iii) Curvature movement
- (b) (1 point) Explain the results in part a.
- (c) (1 point) Outline the uses of key rate durations.
- (d) (2 points) Construct an asset portfolio of zero-coupon bonds to mimic the KRD of the liability and has the same value of the liability.

Term (Years)	1	5	10	20	30
Key Rate Duration (KRD)	0.2	0.4	1.3	2.3	1.5

(e) (2 points) Instead of purchasing the asset portfolio in part d, your manager purchases the asset portfolio with the KRDs above. Evaluate your manager's bet.

## ${f 1.}$ Materials from ERM-111-12

...to be continued

## **Note**

Please note that the mock questions in the PAK Test Aid are all different from the mock questions in the PAK Exam Aid