EXAM 6 - UNITED STATES, SPRING 2018

17. (2 points)

Identify the four functional areas of the governance structure required by Solvency II – Pillar 2, and briefly describe one responsibility of each function.

SAMPLE ANSWERS AND EXAMINER'S REPORT

QUESTION: SPRING 2018 EXAM 6U, QUESTION 17

TOTAL POINT VALUE: 2 LEARNING OBJECTIVE: C3

SAMPLE ANSWERS

The four functional areas of the governance structure:

- Internal Audit or Audit or Internal Control
- Actuarial
- Risk Management or Risk or ERM
- Compliance or Legal

Sample Responses for "Internal Audit or Audit or Internal Control"

- Report the shortcomings in compliance with policies and procedures
- Report any deficiencies of internal controls

Sample Responses for "Actuarial"

- Ensure the reasonability of methods and assumptions when calculating the technical provision
- Provide opinion on the overall underwriting policy and adequacy of reinsurance
- Perform retrospective analysis of best estimates against actual experience
- Estimate the technical reserves required by the company based on its exposure
- Complete the Statement of Actuarial Opinion (SAO)

Sample Responses for "Risk Management or Risk or ERM"

- Risk Management should monitor the risk management function of the company
- The Risk Management department should maintain an aggregate risk framework of the risks taken on by the insurer
- Ensure the integration of any internal model with the risk management function
- Creating and implementing the ORSA framework which helps assess the company's solvency requirements

Sample Responses for "Compliance or Legal"

- Compliance should insure the internal control system is effective to comply with applicable laws and regulations
- The Compliance department should report any regulation compliance issues to the board of directors
- Compliance should ensure that the company complies with any requirements of Solvency II regulations
- Ensure the compliance with regulations that prescribe ORSA completion

EXAMINER'S REPORT

Candidates were expected to identify the four functional areas of the governance structure required by Pillar II of Solvency II and then briefly describe a responsibility of each function that related back to solvency, measuring or monitoring risk, or ensuring methodology or operational

SAMPLE ANSWERS AND EXAMINER'S REPORT

risk is not introduced.

Common errors included:

- Providing a broad responsibility that did not relate back to risk and/or solvency such as setting rates or determining reserves for Actuarial
- Discussing Pillar I or Pillar III requirements
- Listing other areas within an insurance company such as claims, underwriting, accounting, etc.
- Providing ORSA as one of the four functional areas
- Switching the responsibilities of Internal Audit with Compliance or vice versa
- Stating that the Internal Audit function checked the data and/or the methodology
- Stating External Audit instead of Internal Audit
- Describing a risk management task rather than monitoring the risk management function
 - Example: "Measuring the company's risk" is a task. The Risk Management functional area is responsible for monitoring the risk management process and ensuring that an aggregate view of risk is maintained.

QUESTION: SPRING 2018 EXAM 6U, QUESTION 18

TOTAL POINT VALUE: 3.75

LEARNING OBJECTIVE: C2

SAMPLE ANSWERS

Part a: 3.25 points

Sample 1

2016 RBC = R0 +
$$\sqrt{R1^2 + R2^2 + R3^2 + R4^2 + R5^2}$$

= R0 + $\sqrt{2^2 + 5^2 + 1.5^2 + 10^2 + 6^2}$ = R0 + 12.933M

Company LR = Average [(0.9/0.85)*(0.95), (0.95)] = 0.9779

2017 NWP RBC base charge = 35M*(0.9779*0.96 + 0.25 - 1) = 6.607M

NWP growth rates:

2013-2014: (20/18 – 1) = 11.11%

2014-2015: (21/20 - 1) = 5%

2015-2016: (30/21 - 1) = 42.86% \rightarrow capped at maximum of 40%

2016-2017: (35/30 - 1) = 16.67%

3-year average: (16.67% + 40% + 5%)/3 = 20.56%

Cap 3-year average: max(min(40%, 20.56%), 10%) = $20.56\% \rightarrow$ no impact in this case

excess growth: 20.56% - 10% = 10.56%

RBC charge for excessive growth: (10.56%*0.225*35M) = 0.832M

Total 2017 R5 = 6.607M + 0.832M = 7.439M

2017 RBC = R0 + $\sqrt{2^2 + 5^2 + 1.5^2 + 10^2 + 7.439^2}$ = 13.66M