QB1

[A , 4 points ]Fill-in:

[A1] Reliability = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

[A2] Modularity = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

[A3] The acronym UML stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

[A4] The acronym OCL stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

[B, 1 point ] Multiple Choice:

[B1] Efficiency is an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ quality factor.

(a) external (b) internal

[C, 4 points ] Short Answer

[C1] Explain the terms “Software Engineering”, “Software Crisis” , “No Silver Bullet”, and

“Design by Contract.”

[D , 6 points] True/False

[D1] Functional decomposition works top-down.

[D2] Object oriented decomposition works bottom-up.

[D3] Functional decomposition results in reusable module.

[D4] Object-oriented decomposition results in reusable modules.

[D5] Object-oriented decomposition can manage greater complexity than functional decomposition can.

[D6] Real systems do not have a top.