

## ISYS3401 – IT Evaluation

### Week 2 – Tutorial Solution

Q1. The grade point average (GPA) is approximately normally distributed with a mean of 3.34 and a standard deviation of 0.5 point of male students in their second year of Bachelor of Computing (BComp) degree. What is the probability that a male student at this level of study has a GPA less than 2?

Q2. The students took an ISYS3401 test. The test is normally distributed with a mean of 70 and a standard deviation of 10.

What percent of the students:

- a. achieve a High Distinction 85 marks?
- b. pass the test ( $\geq 50$  marks)?
- c. fail the test ( $< 50$  marks)?

Q3. A virus attack has been identified, and it is found that a number of computers are vulnerable, 20% of the computers are reported to be infected. If a random group of 5 computers is fully scanned, what are the probabilities that (a) none, (b) one, (c) two, (d) three, and (e) three or more computers become infected?

Q4. Finish all the questions in Class Activities.