Test 1 – Solution - Research Methodology and Presentation Skills

Question 1

Basic Research Engineering R&D

Goal: New knowledge Generate a new product

Commercial value: No Yes

Support: From government Private Company

Apply to: General Specific
Output: Publication Patent

Question 2

Null Hypothesis – H_0 – Claim: No new findings, until new proof arises.

Ex: The new invention will have the same characteristics, unless proven to be different.

Alternative Hypothesis – H_1 – Claim: There will be new outcomes, unless new proof arises.

Ex: The new invention will have different characteristics, unless proven to be the same.

Question 3

- 1. Understand the status
- 2. Learn from other professionals
- 3. Look for new opportunities
- 4. Assess research methods
- 5. Justify the proposal

Question 4

- i. π : 3.141.....
- ii. 1, 2, 3,
- iii. red, green, blue
- iv. very low, low, average, high, very high

Question 5

In one research project, it contains both quantitative research and qualitative research

- 1. Quantitative then Qualitative
- 2. Qualitative then Quantitative
- 3. Quantitative & Qualitative in parallel