**Tutorial Sheet: 3**

Q1. Select the new challenges given below and write a one page paper that describe the technology (only introduction) and challenges it poses for software engineers.

1. Natural Language Processing
2. Computational Biology
3. Bio-Informatics
4. Embedded software
5. Artificial Intelligence software

Q2. Provide three examples of software projects that would be amenable to the following models.

1. Incremental model
2. Prototyping model
3. Spiral-model
4. Component based model

Q3. It is possible to prove that a software component and even an entire program is correct. So why doesn’t everyone do this?