**Upload your answers document in BlackBoard (Paperless Homework)**

Question 1 (20 points, chapter 5)

Why are the five fundamental metric measured for each workflow, and not for the product as a whole?

The five fundamentals include size, cost, duration, effort and quality. If these are measured as a whole will have many problems and also may not be satisfactory to the users. There will need to be more detailed metrics and data gathering analysis needs to be introduced.

Question 2 (20 points, chapter 5)

Does a one-person software production organization need a version-control tool, and if so, why?

Yes, version control tools help in managing changes to source code. It can also help facilitate with backup, enables developers to move faster and it allows preserving efficiency.

Question 3 (20 points, chapter 11)

Distinguish between a *user* and an *actor*.

A user is the one who interacts with a complete system either directly or indirectly while an actor is outside or external to the system such as the human, hardware, event. Actor also has responsibility towards the system inputs and has expectations from the system output

Question 4 (20 points, chapter 11)

You client has stipulated that open-source software is to be used. Is this a functional or non-functional requirement? How early in the life-cycle model can this requirement be handled? Explain your answer.

The requirement given by the user that the open-source software should be used is a non-functional requirements since the working and functionality of the software depends upon the type of software used. The client should inform this in early stages of the development

Question 5 (20 points, chapter 13)

Why is it so important that the specification document should have no omissions, contradictions, or ambiguities?

It describes what the project must do and the constraints on the product. The specification Document should be complete in all aspects and also have detailed information because specification document is the only source of information based on which the design is made. It must satisfy all contradictory requirements and clear and easy to understand to the client