Software Quality Engineering
Open Ended Questions

1. *SQA (Expanded Definition):* A systematic, planned set of actions necessary to provide adequate confidence that the software development process or the maintenance process of a software system product conforms to established functional technical requirements as well as with the managerial requirements of keeping the schedule and operating within the budgetary confines.

   It is claimed that the expanded definition of SQA corresponds with client satisfaction.
   - Do you Agree?
   - Yes/No; provide arguments.

2. George is an exceptional programmer. Testing his software modules reveals very few errors, far fewer than the team's average. He keeps his schedule promptly, and only rarely is he late in completing his task. He always finds original ways to solve programming difficulties, and uses an original, individual version of the coding style. He dislikes preparing the required documentation, and rarely does it according to the team's templates.He was called to the chief's office and warned by the company's chief that he would be fired unless he began to fully comply with team's coding and documentation instructions.

   - Do you agree with the chief?
   - Yes/No. Justify your opinion.

3. When or at what defect level do we need to Stop Testing?

4. Does a project of only 40 working days duration, to be developed by one professional entity, justify the investment of a man-day in order to prepare a full scale quality and development plan?

5. Is it necessary to prepare a quality plan document for internal projects? Yes/no. Justify.

6. Why do we need quality models when we have various software process models? What is the significance of Software Quality Models?

7. Attribute Tradeoffs:
   - Usability vs Functionality
   - Performance vs Security
   - Usability vs Portability

8. Differentiate between walkthrough and inspection.

9. When do we prefer walkthrough and when do we prefer inspection to review software products?

10. In what circumstances we use V-model and in what situations we should avoid V-model?

11. All web services are API. Do you agree with this opinion? Justify your opinion with a suitable example.