

Submission date: 8 September, 2015

Brief Answer Questions

1. What is software?
2. What is software engineering?
3. Explain the term software crisis.
4. What is open system?
5. What is bespoke (custom) product?
6. What are deliverables?
7. What are the four important attributes which all software products should have? Suggest four other attributes that may sometimes be significant.
8. Write any three characteristics of bad software.
9. How software engineers are different from system engineers?
10. What are the costs of software engineering?
11. What is the difference between software engineering and computer science?

Short Answer Questions

12. What are the differences between generic software product development and custom software development?
13. Differentiate the characteristics of hardware and software with necessary diagrams.
14. Differentiate between software engineering and system engineering.
15. Explain the key challenges facing software engineering?
16. Explain why system testing costs are particularly high for generic software products that are sold to a very wide market.
17. Explain workflow, data and role/action models?

Long Answer Questions

18. What is the difference between a software process model and a software process? Suggest two ways in which a software process model might be helpful in identifying possible process improvements.
19. Discuss whether professional engineers should be certified in the same way as doctors or lawyers.
20. Explain the ethical issues as proposed by IEEE.
21. To help counter terrorism, many countries are planning the development of computer systems that track large numbers of their citizens and their actions. Clearly this has privacy implications. Discuss the ethics of developing this type of system.