

SECTION-B

2. What are the advantages and disadvantages of Waterfall Model for software development?
3. What do you mean by functional and non-functional requirements? Give at least two examples of each type of requirements.
4. What are the characteristics of a good test case? Discuss static and dynamic analysis in testing.
5. Explain component-based software development with the help of block diagram.
6. Discuss project scheduling using PERT and GANTT charts with the help of suitable example.

SECTION-C

7. Consider the following narrative description :

Draw the Data Flow Diagrams for this description starting from zero level. If missing, consider suitable data to complete the description.

The purpose of the TEXTBOOK INVENTORY SYSTEM at a campus bookstore is to supply textbooks to students for classes at a local university. The university's academic departments submit initial data about courses, instructors, textbooks and projected enrollments to the bookstore on a TEXTBOOK MASTER LIST. The bookstore generates a FORM 17; PURCHASE ORDER, which is sent to publishing companies supplying textbooks. Book orders arrive at the bookstore accompanied by a PACKING SLIP, which is checked and verified by the receiving department. Students fill out a BOOK REQUEST FORM that includes course information. When they pay for their books the students are given a paper tape CASE REGISTER SALES RECEIPT.

8. What is white-box testing? Explain the significance of cyclomatic complexity in white-box testing with the help of suitable example.
9. What is meant by software quality management? Explain the difference between ISO and SEI-CMMI approach for software quality.