

B. Tech. IV Semester in Information Technology
Internal Examination (TEST 2), 27th April 2021
IT 19-204-0404 SOFTWARE ENGINEERING
(1 Hour; 25 Marks)

Instructions:

- This is a test to check your understanding of SE Design concepts; not your ability to copy answers.
- Write your answers legibly in an A4 sheet (preferably 2 pages only), scan it neatly and save the file with your name followed by SE_Test2 (Eg. Renu_SE_Test2)
- Schedule your writing time properly so that you can upload the file within time. Late submission may lead to reduction in marks.
- Design your answer content proportional to the given marks.
- Write what you know precisely and concisely.

Questions:

1. List and define any 3 software design principles. (3 marks)
2. What are the various activities and outcomes of the software design process? (5 marks)
3. It is proposed to develop a software that would be used by individuals to manage their personal collection of books. Identify the functional and non-functional requirements for the software. Perform structured analysis for the personal library software and draw the Level 0 and Level 1 DFDs. (5 marks)
4. List and define any 6 user interface design principles (6 marks).
5. Why are high cohesion and low coupling desirable in design solutions? (1 mark)
6. What are the various architectural styles? Draw the diagram for each one. (5 marks)