

Exam. Code : 206703

Subject Code : 5195

M.Sc. Computer Science 3rd Semester

MCS-301 : ADVANCED SOFTWARE ENGINEERING

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any *five* questions. All questions carry equal marks. Use of non-programmable and non-storage type calculator is allowed.

1. What do you mean by Software Project Management ? Discuss the various components of Software Project Plan. Calculate effort estimation citing any example.
2. Explain the factors around which software economics revolves. Also suggest the ways to improve the software economics.
3. What is Software Re-engineering ? What type of systems can be re-engineered ? When do we start the re-engineering process ?
4. Explain the term Object-Oriented Design. Describe the Rumbaugh methodology for preparing an Object-Oriented Design.

5. What is Software Agent ? How does it differ from a software component ? Describe the essential properties of a software agent.
6. What is Software Reuse ? How can the software be reused with the help of re-engineering methodologies ?
7. What are various Object-Oriented Design metrics ? How do we measure various Object-Oriented Design aspects using these metrics ?
8. How the software has evolved from 1960's till date ? Explain.