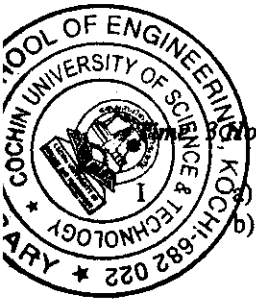


BTS 157(A)

**B.Tech. Degree VII Semester Examination in Information Technology,
May 2002**



IT 701 SOFTWARE ENGINEERING AND CASE TOOLS
(1998 Admissions)

Max. Marks: 100

Discuss the factors that affect software cost. (8)
Explain any one cost estimation model. Discuss its advantages and disadvantages. (12)

OR

II a) With a neat figure, explain the life cycle of a software product. (10)
b) Discuss the different ways of organizing project teams. Compare their advantages and disadvantages. (10)

III a) Discuss any two notations used in software design. (10)
b) What you mean by 'walkthroughs' and 'Inspections'. (10)

OR

IV a) Explain the following Design notations (10)
(i) Data Flow diagrams.
(ii) Decision Tables.
Give an example each.
b) Discuss the different structured coding techniques. (10)

V a) Define software Reliability. How do you measure software reliability. (10)
b) Define Software Availability. Explain any one availability model. (10)

OR

VI a) Explain what you mean by (10)
(i) Software fault
(ii) Software error
(iii) Software Availability (10)
b) Discuss the different Reliability metrics. (10)

VII a) Explain how data abstraction and exception handling is implemented in ADA. (10)
b) Discuss the features of ADA that make it suitable for implementing large software projects. (10)

OR

VIII a) Is ADA language suitable for concurrent program execution? If yes, explain with an example. (10)
b) What do you mean by Data Encapsulation. Explain with an example, how it is implemented in ADA. (10)

IX a) What is meant by CASE tools? Discuss its importance in the software Industry. (10)
b) Discuss the building blocks of CASE. (10)

OR

X a) Explain the following CASE tools (12)
(i) SCM Tools
(ii) Prototyping tools
(iii) Programming tools
b) Explain the need for Re-engineering tools. (8)