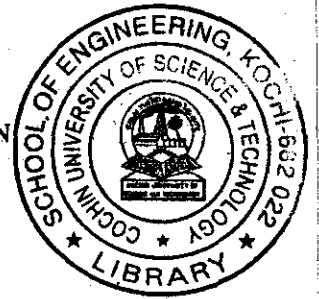


Code No. BTS 117 (F)

B.TECH. DEGREE III SEMESTER (SUPPLEMENTARY) EXAMINATION IN
INFORMATION TECHNOLOGY, JUNE 2001



IT 303 PROGRAMMING TECHNIQUES AND PRACTICES
(1995 Admissions)

Time: 3 Hours

Maximum Marks: 100

(All questions carry equal marks)

- I. What is the system development life-cycle? Briefly describe the activities it includes.
OR
- II. (a) What is meant by 'Good programming'?
(b) What objectives guide the design of computer program specification?
- III. (a) Describe elementary data types defined in programming languages and operations on them.
(b) Compare two searching algorithms.
OR
- IV. (a) Explain fundamental data types and derived data types defined in programming languages.
(b) Give an algorithm to sort n integers in non-decreasing order.
- V. Explain the following:
(i) Catalytic checking (ii) Egoless programming
OR
- VI. Explain Top-down program design and bottom-up program design.
- VII. (a) How does code indentation contribute to readability of a program and to subsequent programming change?
(b) What are the major approaches to verify a program process data accurately?
OR
- VIII. (a) What are the problems and disadvantages of parallel testing?
(b) Explain various coding techniques.
- IX. Are corrective maintenance and debugging the same thing? Explain your answer.
OR
- X. What is the role of software maintenances in successful use of a software system?
- XI. How does a report generator differ from a query language?
OR
- XII. Describe the utilities commonly available that can enhance the programmers productivity.
- XIII. Is the absence of 'GOTO' statement alone enough to result in 'structured programming'?
Comment.
OR
- XIV. Illustrate the use of a suitable tabular technique in evaluating a complex combination of conditions to select an appropriate action.
- XV. (a) What is the purpose of post-installation review?
(b) Explain the difference between a preprocessor and macro processor.
OR
- XVI. Explain multiprogramming? What are the advantages and disadvantages of multiprogramming?
