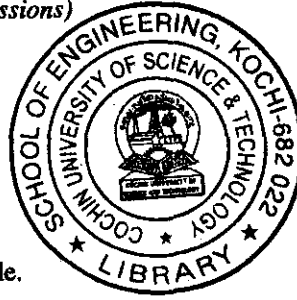


**B.TECH. DEGREE III SEMESTER (SUPPLEMENTARY) EXAMINATION IN
INFORMATION TECHNOLOGY, JUNE 2002**

**IT 303 PROGRAMMING TECHNIQUES AND
PRACTICES**

(1995 Admissions)

Time: 3 Hours



Maximum Marks: 100

- I. (a) Explain the system life cycle. (7½)
(b) Explain the program specification. (5)
OR
- II. (a) Describe the system development life cycle. (7½)
(b) Give some guidelines to maintain a good programming. (5)
- III. Briefly explain the common data types and their features supported by general purpose programming languages. (12½)
OR
- IV. (a) Describe the data structure. (7½)
(b) Give an algorithm to sort a table of n number. (5)
- V. Describe the different stages in program design and checking. (12½)
OR
- VI. Explain the following:
(i) Dry - running (ii) Walk - through
(iii) Ego less programming (12½)
- VII. Explain testing and debugging stages of coding process. (12½)
OR
- VIII. (a) What is interactive debugging? (5)
(b) Differentiate between testing and debugging. (7½)
- IX. Discuss the various stages of program compilation. (12½)
OR
- X. (a) Explain the role of program release and maintenance. (7½)
(b) Explain interactive discipline. (5)
- XI. What are the facilities provided by a typical operating system? (12½)
OR
- XII. Explain the following:
(i) Macroprocessor (ii) Pre processors
(iii) Report generator (12½)
- XIII. Explain the implementation of decision table. (12½)
OR
- XIV. (a) What is the use of flow charts? Explain the symbols using in flow charts. (7½)
(b) Briefly explain the iterative control structures. (5)
- XV. Explain the following:
(i) Data manipulation (ii) Data communication
(iii) Data description (12½)
OR
- XVI. Describe the essential features of a programming language. (12½)