

6/H-73 (vii) (Syllabus-2015)

(2)

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(July)

COMPUTER SCIENCE

(Honours)

(**Software Engineering**)

(CS-601 T)

Marks : 37

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **one** question from each Unit

UNIT—I

1. (a) What is a system? Write a note on the types of systems. 1+3=4
(b) Elaborate on the interpersonal and technical skills of a system analyst. 3½
2. (a) Elaborate on the analyst/user interface-behavioral issues. Explain MIS organization. 3+2=5
(b) Briefly explain the advantage and disadvantage of data and fact gathering through interviews. 2½

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(Turn Over)

UNIT—II

3. Compare and contrast the evolutionary model of software development with the spiral model of software development. 3+3½=6½
4. With the help of a diagram, explain the waterfall model of software development. What are its merits and demerits? 4+2½=6½

UNIT—III

5. (a) What are the project planning activities involved during software development? Why is it important? 3+2=5
(b) Explain modularity. What is a functionally independent module and what is its importance? 2+1½=3½
6. (a) What is a functional organization structure? What are its advantages? 1+2=3
(b) Briefly explain the three main approaches to software cost estimation. 3
(c) Write a note on COCOMO product classes. 2½

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(Continued)

UNIT—IV

7. (a) What is meant by 'balancing a DFD'?
Briefly elaborate on some commonly
made errors while constructing a DFD
model. 1+3=4
- (b) What are the characteristics of a good
user interface? 3½
8. (a) What is the aim of structured design?
Explain a structure chart with the help
of an example. 1+3=4
- (b) What is an activity diagram? How is it
different from a class diagram? 2+1½=3½

UNIT—V

9. (a) Explain how code inspection and code
walk-throughs are performed. 4
- (b) How is verification different from
validation? 3
10. (a) Differentiate between black-box testing
and white-box testing. 4
- (b) What factors determine the quality of
software? 3

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