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

#### 2018

(April)

## 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

- What is a System? What is system analysis? What are the characteristics 1. (a) 1+1+2=4
  - Elaborate on the interpersonal and technical skills of a system analyst. (b)
- What is an information system? Explain 1+5=6 ۶. (a)
- Briefly explain the importance of a (Turn Over) (b) feasibility study. BOLLOG

#### UNIT-II

- Identify the two important techniques that software engineering uses to tackle the problem of exponential growth of problem complexity with its size.
  - Explain the Prototyping model software development, highlighting its advantages and disadvantages.
- 4. With the help of a diagram, explain the Waterfall model of software development. What are its merits and demerits?

#### UNIT-III

- 5. (a) Elaborate on the requirement gathering and analysis activity.
  - (b) Write down the differences among organic, semidetached and embedded software products.
  - Give a brief explanation on classification of cohesiveness
- 6. (a) Explain when you should use PERT charts and when you should use Gantt the charts while you should use duties of you are performing the duties of a project manager.

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(Continued)

- List some important activities that a software project manager performs (b) 3 during software project planning.
- Bring out the differences between chief (c) team programmer democratic team structure.

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#### UNIT-IV

- What is meant by 'balancing a DFD'? Briefly elaborate on some commonly made errors while constructing a DFD
  - What are the characteristics of a good user interface? Explain.
- What is the aim of structured design? Explain a structure chart with the help 8. (a)
  - What is an activity diagram? How does it compare with a flowchart?

### UNIT-V

- Explain how code inspection and code 3 walk-throughs are performed.
  - What factors determine the quality of (Turn Over) software?

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- 10. (a) Differentiate between black-box testing and white-box testing.
  - (b) How is verification different from validation?

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