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

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( May/June )

## COMPUTER SCIENCE

De Schrift Court Bear Stanger 12 feb.

( 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? What is system analysis? What are the characteristics of a system? 1+1+2=4

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(b) Who is a system analyst? Elaborate on any three roles of a system analyst. and the medias for the property

| (4. \bar{\chi} | <i>(a)</i> (b) | 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 for software development, highlighting its advantages and disadvantages.  The help of a diagram, explain the erfall model of software development. | 2 41/2     | · 7. | (c)<br>(a) | List some important activities that a software project manager performs during software project planning.  Bring out the differences between chief programmer team structure and democratic team structure.  UNIT—IV  What are the symbols used for constructing a DFD? Briefly elaborate on some of the shortcomings of the DFD model.  1+3=4 |
|----------------|----------------|---|------------|------|------------|--|
| 7              | Wha            | t are its merits and demerits? 4½+2=  | 6½         |      | 4.         |  |
| 28.75          | ja til en kjo  | Elaborate on the requirement gathering and analysis activity.   | . <b>3</b> | 8.   | (a)        | What are the differences between a flow-chart and a structure chart? 2½  |
|                | (b)            | Write down the differences among organic, semidetached and embedded   |            |      | (b)        | Compare the relative advantages of textual and graphical user interfaces. 3  |
| , / <b>≈</b> ; | (c)            | software product.  Give a brief explanation on the classification of cohesiveness of a module.  | 3 ·<br>2½  |      | (c)        | Write down the importance of data dictionary in the context of good software design.   |
| 22D/           | 864            | ( Continu   | ed)        | 22D  | /864       | (Turn Over)  |

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| 9.  | (a) What is meant by code review? Why is it required to be completed before performing system testing? 2+2=4 |   |  |  |  |  |  |
|     | , ,  | Distinguish between integration testing and system testing.   |  |  |  |  |  |
| 10. | (a)  | What is debugging? Distinguish between fault and failure. 2+1+1=4   |  |  |  |  |  |
|     | (b)  | Explain the terms 'software reliability' and 'software quality management'. $1\frac{1}{2}+1\frac{1}{2}=3$   |  |  |  |  |  |
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