

Total No. of Printed Pages:2

SUBJECT CODE NO: H-413
FACULTY OF SCIENCE AND TECHNOLOGY
B.E. (CSE)
Visual Modeling
(REVISED)

[Time: Three Hours]

[Max.Marks: 80]

Please check whether you have got the right question paper.

- N.B
- i) Q. No. 1 and Q. No. 6 are compulsory
 - ii) Attempt any two questions from the remaining questions of each section
 - iii) Assume suitable data whenever necessary

Section A

- | | | |
|-----|--|----------|
| Q.1 | Solve <u>any two</u> | 10 |
| | <ol style="list-style-type: none"> a) Explain five attributes of complex system b) Explain software modeling c) Explain software architectural design | |
| Q.2 | <ol style="list-style-type: none"> a) Explain multiple views of software architecture b) Explain algorithmic & object oriented decomposition | 07
08 |
| Q.3 | <ol style="list-style-type: none"> a) Draw and explain notations, features/ importance guidelines for creating use case appointment system b) Draw CRC card for patient appointment with class diagram | 07
08 |
| Q.4 | <ol style="list-style-type: none"> a) Explain elements, syntax, steps to build sequence diagram b) Draw and explain communication diagram to place order for CD/DVD from music shop | 07
08 |
| Q.5 | <ol style="list-style-type: none"> a) Draw and explain essential elements of deployment diagram b) Explain notation, features, guideline for creating activity diagram | 07
08 |

Section B

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|-----|---|----------|
| Q.6 | Solve <u>any two</u> | 10 |
| | <ol style="list-style-type: none"> a) What is design pattern? b) How do we describe design pattern? c) Explain organizing the catalog | |
| Q.7 | <ol style="list-style-type: none"> a) Explain abstract factory design pattern in detail b) Explain prototype design pattern in detail | 07
08 |
| Q.8 | <ol style="list-style-type: none"> a) Explain applicability & structure of command design pattern b) Explain consequences and implementation of observer design pattern | 07
08 |

- Q.9 a) Explain behavioral pattern
- b) Explain creational design pattern

07
08

- Q.10 a) Explain adaptor design pattern
- b) Explain proxy design pattern

07
08