SEAT No. :

P4128

[4860]-331

M.E. (Computer Engineering)
ADVANCED SOFTWARE ENGINEERING
(2008 Pattern) (Semester - I) (Elective - I (a))

Time : 3 Hours] *[Max. Marks : 100*

Instructions to the candidates:
1) *Answers to the two sections should be written in separate answer books.*
2) *Answer any three questions from each section.*
3) *Neat diagrams must be drawn wherever necessary.*
4) *Figures to the right side indicate full marks.*
5) *Assume suitable data if necessary.*

SECTION - I

Q1) a) Explain the socio technical systems with system design activities. **[8]**

b) Explain the requirements engineering tasks. **[8]**

Q2) a) Explain the object oriented design steps with an example. **[8]**

b) Explain the importance of architectural design and its tasks. **[8]**

Q3) a) Explain an evolutionary process model. **[8]**

b) Give the critical systems development activities. **[8]**

Q4) Explain the following (Any three) : **[18]**

a) Formal method

b) Object model

c) Non functional requirements

d) Application architecture

SECTION - II

Q5) a) Explain two black box testing methods. [8]

b) Justify the need of estimation with a technique. [8]

Q6) a) Explain Extreme Programming. [8]

b) Give the algebraic specification method. [8]

Q7) a) Explain the product quality factors. [8]

b) How risk assessment is carried out? [8]

Q8) Explain the following (Any three) : [18]

a) Real time system

b) Software Metrics

c) UI design

d) Managing People

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