Examination	: Block Exam (Regular)	**Seat No.**	:
Date	: 17/10/2015	**Day**	:
Time	: 3.00 to 4.15	**Max. Marks**	: 36

INSTRUCTIONS:
1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

Q.1   Do as directed. **[12]**
(a) Define referential integrity with example. **[2]**
(b) Explain Insert and Update anomalies with example. **[2]**
(c) Define instance and schema. **[2]**
(d) What is the purpose of different database abstraction levels? **[2]**
(e) Explain starvation using example. **[2]**
(f) Define unsafe expression in TRC with example. **[2]**

Q.2   Attempt the following questions. **[12]**
(a) Draw an E-R diagram for **Hospital Management System**. (Min. 4 Entity Sets) **[6]**
(b) What is the difference between Primary Index and Secondary Index? Explain with example. **[6]**

Q.3 (a) Explain state diagram of transaction. **[6]**
(b) Explain Two Phase Commit Protocol. Also explain any two handling of failures in 2PC. **[6]**