

Code: IT7T2

**IV B.Tech - I Semester – Regular / Supplementary Examinations
November 2016**

**PERFORMANCE ENGINEERING
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) With neat sketch, differentiate between Turing machine and Von Neumann machine. 7 M

b) Discuss with a case study on Performance and Scalability comparison between Intel's Single-Core and Multicore Processors. 7 M

2. Explain redundant arrays of inexpensive disks levels RAID0, RAID1, RAID5 and RAID10 with neat sketch. 14 M

3. Write short notes on 14 M
i) System Software ii) Application Software
iii) Middleware Software

4. Define Enterprise Software. Differentiate between Enterprise Software, Monolithic and Client/Server Architecture. 14 M

5. Discuss three types of Common nonfunctional software performance tests with a case study for performance regression testing. 14 M
6. Define Software Development Process. Explain Chrysler Comprehensive Compensation System (C3) payroll project with three major XP values. 14 M
7. Consider two case studies Active Users Versus Concurrent Users and Performance Test on an OLTP System. Explain Performance Metrics for OLTP Workloads by applying the case studies. 14 M
8. Compare common factors of Windows versus Linux using four test configurations of Windows 2003 and Linux 2.6. 14 M