Computer Engineering Department
Bilkent University

CS351: Data Organization and Management
Midterm Exam Study Guide
November 23, 2011

A. Date, Time and Place Information
1. **Exam Date & Time**: November 26, 2011; Saturday; 13:40-15:30

2. **Exam Locations**:
   EB101-For students: Acarlar -- Bellisoy   Proctor: Bilge Köroğlu
   EB102-For students: Bıçak -- Dikmen   Proctor: Berk Koçuroğlu
   EB103-For students: Dinç -- Kalem   Proctor: Berkan Ercan
   EB104-For students: Kandiş -- Mumcu   Proctor: Cansın Yıldız
   EB201-For students: Nazlım -- Şişman   Proctor: Çağrı Toraman
   EB202-For students: Terzi -- Yücel   Proctor: Mirun Akyüz
                                              Libero Proctor: Hayrettin Erdem

B. Exam Structure
1. About seven questions

2. Multi section per question

3. All problem solving type

4. Closed book/note exam

C. Topics to be tested (an incomplete list)
1. Disk medium concepts (track, cylinder, block etc.), I/O time.

2. Unsorted sequential files: time calculation for various file operations (T_F, intersection, etc.).

3. Heap sort, replacement selection sort, sort time calculation.

4. External merge: two-way merge, p-way merge, merge time calculation.

5. Static hashing with chaining, dynamic hashing using linear hashing.

D. Additional Notes
1. During the exam you cannot use your cell phones. for any purpose. Make sure that you turn off your cell phone.

2. Exam involves calculations based on four operations, but if you like you may bring your own calculator to the exam. You cannot share calculators.