

**B. C. A. (Sem.V) Examination**  
**Oct/Nov-2016**  
**Advance Database Management Systems - 506**  
**Subject Code No - 3461**

**Time: 2 Hours 30 Minute**

**Total Marks: 70**

**Q.1 Answer the following Questions**

- (A) Explain relational and object oriented data models in detail. (07)  
 (B) What is SSM? Explain concept of SSM in detail. (07)

**OR**

**Q.1 Answer the following Questions**

- (A) Explain post-relational and dimensional data models in detail. (07)  
 (B) What is meta-data? Explain types of meta-data in detail. (07)

**Q.2 Answer the following Questions**

- (A) Write a short note on OODM. (07)  
 (B) Explain features for object oriented system. (07)

**OR**

**Q.2 Answer the following Questions**

- (A) What is Object Oriented Database Model? Explain Object and Object ID in detail. (07)  
 (B) Write a short note on "OODBMS pros and cons". (07)

**Q.3 Answer the following Questions**

- (A) What is Data Warehouse? List advantages of Data warehouse. (07)  
 (B) Define Data Mining. Explain data mining techniques in detail. (07)

**OR**

**Q.3 Answer the following Questions**

- (A) Define Data warehouse. Explain data warehouse architecture in detail. (07)  
 (B) Explain advantages of data mining in detail. (07)

**Q.4 Answer the following Questions**

- (A) Explain features of Distributed V/s Centralized database. (07)  
 (B) Explain advantages and disadvantages of DDBMS. (07)

**OR**

**Q.4 Answer the following Questions**

- (A) Write a short note on "Distributed DBMS architecture". (07)  
 (B) Write a short note on "Schema object and naming". (07)

**Q.5 Answer the following Questions**

- (A) Explain Access control and Information flow in detail. (07)  
 (B) Define terms: a) Authorization b) Privacy c) Database security. (07)

**OR**

**Q.5 Answer the following Questions**

- (A) What is Identification? What is Authentication? Explain in detail. (07)  
 (B) Write a short note on "Security and integrity threats". (07)