



ADVANCE DATABASE SYSTEM DEC 2018

**Total Marks: 80
Total time: 3 hours**

INSTRUCTIONS

- (1) Question 1 is compulsory.**
- (2) Attempt any three from the remaining questions.**
- (3) Draw neat diagrams wherever necessary.**

- Q1. (a)** When should one use Prototype model? Discuss the advantages and disadvantages of the prototype model. (8)
- (b)** Discuss Abstraction, Information Hiding and Functional Independence. (6)
- (c)** Explain the features of repository required to support SCM. (6)
- 2. (a)** Explain with suitable diagram Scrum Agile model. (10)
- (b)** Why Integration testing is needed to test a software? Explain the different incremental integration strategies. (10)
- 3. (a)** List different metrics used for software measurement. Explain function point-based estimation technique in detail. (10)
- (b)** What do you understand by software maintenance? Also explain the different types of maintenance. (10)
- 4. (a)** Explain in detail the Software Configuration Management process with suitable diagram. (10)
- (b)** What is white box testing? Explain the basis path testing method in detail. (10)
- 5. (a)** What are the different categories of Risks? Explain the steps in developing RMMM plan. (10)
- (b)** What is FTR in SQA? What are Its objectives? Explain the steps in FTR. (10)
- Q6.** Write short note on any two (any 2) (20)
- (a)** Black Box Testing
 - (b)** COCOMO II Estimation Models
 - (c)** Test Driven Development
 - (d)** Service Oriented Software Engineering