B.Sc.- II (CBCS Pattern) Sem-III USCST05 - Computer Science Paper-I : Database Management & System Analysis

GUG/W/22/11602

Time : Three Hours Max. Marks: 50 Notes : 1. All questions are compulsory and carry equal marks. Draw neat and labelled diagrams wherever necessary. 2. 3. Avoid vague answers and write answers relevant and specific to questions only. **Either:** What is data model? Explain any one data model in detail. 5 1. a) Explain advantages of DBMS. 5 b) OR 5 Explain three tier architectures in detail. c) 5 d) What are the basic terminologies used in DBMS? Explain any two in detail. **Either:** 2. Explain the concept of relational database structure. 5 a) What is normal form? Explain 2NF in detail. 5 b) OR 5 c) Explain CODD's rules in detail. d) Explain 3NF with suitable example. 5 **Either:** 3. Explain PARIS model in detail. 5 a) b) Write a short note on: 5 Decision tree Decision table i) ii) OR Define a system. Explain the component of system. 5 c) What are the reasons of using CASE tools? 5 d) **Either:** 4. Discuss about maintenance review in system design. 5 a) 5 b) Write a note on: i) Quality assurance Privacy ii) OR List the various level of testing. Explain any one level of testing. 5 c) Explain the objectives and methods of output design. 5 d) 5. Attempt all the questions. Write a short note on data processing. $2^{1/2}$ a) Write a note on: $2^{1/2}$ b) Union Operator (\bigcup) Set intersection (\bigcap) i) ii) $2^{1/2}$ Explain data flow diagram in short. c) Write a short note on form design. $2^{1/2}$ d) ******

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