Total No. of Questions: 12]

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SEAT No.:	
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[Total No. of Pages: 2

B.E. (Computer Engg.) SOFTWARE TESTING AND QUALITY ASSURANCE (2003 Course)

Time: 3 Hours] [Max. Marks : 100 Instructions to the candidates: Answers to the two sections should be written in separate answer books. 1) Answer any three questions from each section. 2) 3) Neat diagrams must be drawn wherever necessary. 4) Figures to the right side indicate full marks. 5) Assume suitable data if necessary. **SECTION - I** Explain different types of scales used for measurement. **Q1**) a) [8] What is good data? What are different characteristics of good data? [8] b) OR **Q2**) a) Explain four principles of investigation. Illustrate the process of CMM in detail. b) What is Albrecht's Approach. Explain with an example. **Q3**) a) [8] What are different metrics used in Object oriented measures. b) [8] OR What is sequencing and nesting? Explain with an example. **Q4**) a) Define modularity. What are different types of modularity. b) 05) a) Write short notes on: [18] i) Domain testing Equivalence partitioning ii) Goal Question metric iii)

Write short notes on:

06) b)

Requirement based testing Graph based testing ii) User documentation testing iii) **SECTION - II** Write short notes on: **07**) a) [18] i) Test plan Scenario testing ii) iii) Integration testing OR Write short notes on: 08) b) Acceptance testing i) **GUI** testing ii) Regression testing iii) Explain six sigma process in detail. **Q9**) a) [8] Draw a cause effect diagram to depict the typical factors causing failure b) of software projects. [8] OR **Q10)**a) Explain Total Quality Management. Explain with examples following software maintenance metrics: b) Fix backlog and backlog management index. ii) Percent delinquent fixes. Explain in brief the steps involved in problem reporting phase. [8] **011)**a) What are the contents of configuration management repository? b) [8] OR What are patch bundles? Explain its advantages? *Q12*)a) Explian the roles of support analyst? b)