U.S.N
P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Fifth Semester, B.E Information Science and Engineering
Semester End Examination; Dec 2019
e: 3 hrs Max. Marks: 100
: Answer FIVE full questions, selecting ONE full question from each unit.
UNIT - I
Explain Errors, Faults and Failures with the help of a diagram.
Describe the following:
i) Testing and verification ii) Defect Management
Explain correctness and reliability.
Describe Model based testing and Model checking.
UNIT - II
Explain the test selection problem.
Explain Boundary value analysis.
Describe equivalence classes for any five types of variables.
List the steps in the category partition method. Explain first four steps in detail.
UNIT - III
Explain path testing with example.
Describe Inter procedural analysis.
Explain condition testing with example.
Describe data flow analysis with arrays and pointers.
UNIT - IV
Explain adequacy criteria.
Describe scaffolding.
Explain the following:i) Test caseii) Test case specificationiii) Test obligation
iv) Test suite v) Test or test execution iii) Test obligation
Describe test oracles with diagram.
UNIT - V
Explain dependability properties and draw the diagram illustrating relation among them.
Describe integration testing strategies.
Explain the following: i) Acceptance testing ii) Usability