2055
B.E. (Information Technology) Eighth Semester
PEIT-801(d): Software Testing and Quality Assurance

Time allowed: 3 Hours

Max. Marks: 50

NOTE: *Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.*

x-x-x

1. Differentiate the following terms :-
   a) Software Measurements and Metrics
   b) Scheduling and Estimation.
   c) Software Reliability and Software Safety
   d) Version Control and Change Control
   e) Alpha and Beta Testing   (5x2)

UNIT - I

2. a) Discuss the project management process and its phases.

   b) Explain the advantages and disadvantages of process models   (2x5)

3. a) What do you mean by quality control? Also explain various SQA activities.

   b) Discuss the various quality assurance standards.   (2x5)

4. a) Define the following terms
      i. Risk Management
      ii. Risk Identification
      iii. Risk Projection
      iv. Risk Refinement

   b)   Explain the steps involved in software configuration management process. (2x5)

UNIT - II

5. a) How recovery testing differs from security testing.

   b) Discuss various debugging strategies.   (2x5)

P.T.O.

6. Explain the various testing techniques with example. (10)

7. Write note on:

    a) Testing Client/Server Systems

    b) Testing process

    c) Testing Security (10)

x-x-x