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PG AND RESEARCH DEPARTMENT OF COMPUTER SCIENCE

QUESTION BANK

SUBJECT : SOFTWARE QUALITY ASSURANCE

SUBCODE: MCS35 A

UNIT I

SECTION A (6 MARKS)

1. Write about software quality.
2. Explain about Software Quality.
3. Explain about Assurance.
4. Explain about software testing.
5. Explain about Quality assurance with Quality control.
6. Explain about portability and Reusability
7. Explain about various causes of software errors.
8. Explain about failure, fault and error.
9. Explain about Responsibilities of SQA.(U) **NOV/ DEC 18**
10. Explain about SQA people

SECTION B (15 MARKS)

1. Explain detail about The Role of SQA.
2. Explain detail about – SQA Plan.
3. Explain detail about SQA considerations
4. Explain detail about Quality Management (U) **NOV/ DEC 18**
5. List out the problems faced in Configuration Management. (U) **NOV/ DEC 18**

UNIT II

SECTION A (6 MARKS)

1. Discuss the basic principles of project management. (U) **NOV/ DEC 18**
2. Explain about Quality management activities.
3. Explain about Software Quality and Lifecycle
4. Explain about various Organizations.
5. Compare the term: Quality Control and Quality control. (U) **NOV/ DEC 18**
6. Explain about Quality planning.
7. Explain about Software Quality Policy.
8. Explain about software Project planning.
9. Explain about SQA issues to Executive Management.
10. Explain about Managing Software Quality.

SECTION B (15 MARKS)

1. Explain in detail about Software Organizations.
2. Explain in detail about Managing Software Quality.
3. Explain in detail about Defect Prevention. (U) **NOV/ DEC 18**
4. Explain in detail about Software Quality Assurance Management.
5. Explain in detail about Managing Software Organizations.

UNIT III

SECTION A (6 MARKS)

1. What are the characteristics of software Quality? (U) **NOV/ DEC 18** Quality control Tools.
2. Process improvement Cycle
3. Explain about Product Quality metrics.
4. Explain about Process Quality metrics.
5. Explain about Customer Problems.
6. Explain about Customer Satisfaction.
7. Explain about Defect Density.
8. Explain about In process Quality metrics.
9. Explain about Maintenance Quality metrics.

SECTION B (15 MARKS)

1. Explain in detail about Software Quality.
2. Explain in detail about Total Quality Management (TQM). (U) **NOV/ DEC 18**
3. Explain in detail about Quality Metrics
4. Explain in detail about Software Quality Metrics Analysis
5. Explain in detail about Software quality design

UNIT IV

SECTION A (6 MARKS)

1. Write short notes on objectives Software Quality program.. (U) **NOV/ DEC 18**
2. Write about Quality management software.
3. Write about components of Software Quality assurance System.
4. Write about Mc call's Factor Model.
5. Write about Product Revision Quality Factors.
6. Explain about Software Quality program concept.
7. Different Phases in SQA implementation.
8. Explain about Task and Responsibilities Management.
9. Explain about Software Test Plan.
10. Explain different types Software Quality metrics. (U) **NOV/ DEC 18**

SECTION B (15 MARKS)

1. Explain detail about Software Quality Program Concepts.
2. Explain detail about Establishment of a Software Quality Program.
3. Explain detail about Software Quality Assurance Planning.
4. Explain detail about Explain about Purpose of SQA.
5. Explain detail about Scope of SQA Planning. (U) **NOV/ DEC 18**

UNIT V

SECTION A (6 MARKS)

1. Write about Maturity model.
2. Write about levels Test maturity model.
3. Role of SQA in Maturity model.
4. Explain about software Standards. (U) **NOV/ DEC 18**
5. Explain about Reviews.
6. Write about Process reviews.
7. Write about Testing.
8. Write about Optimization.
9. Write about Scope of SQA planning. (U) **NOV/ DEC 18**
10. Write about SEI's CMM.

SECTION B (15 MARKS)

1. Explain in detail about Write about ISO 9000 Quality System Standards. (U) **NOV/ DEC 18**
2. Explain in detail about Capability Maturity Mode.
3. Explain in detail about Role of SQA in Software Development Maturity.
4. Explain in detail about SEI CMM Level 5.
5. Explain in detail about Comparison of ISO 9000 Model with SEI's CMM