

Academic Year (2018-19)

Department of Information Technology (Under Graduate Course) B.Sc.IT

Question Bank

Semester – VI

Software Quality Assurance(USIT601)

Advanced Learner

1. What are the Different types of requirements?
2. What are different characteristics of software?
3. Explain software development processes.
4. How are products classified depending upon their criticality?
5. Which are the problematic areas of SDLC?
6. Explain software quality management.
7. Why does software have defects?
8. Which processes are related to software quality?
9. Explain generic view of quality management system.
10. Which are pillars of quality management system? Explain important aspect of Quality management

Slow Learner

1. What is TQM?
2. What is PDCA?
3. State salient features of good testing.
4. What are the challenges faced by tester?
5. What is Unit Testing? State its Advantages
6. What is Equivalence class testing?
7. Write a short note on Acceptance Testing.
8. Write a short note on Concerns of verification.
9. Write short on Requirements testing
10. What is Big Bang Testing?

Assignment

1. Why and how to use SPC?
2. How to establish testing policy?
3. How Improved Equivalence classes ting?
4. Explain Levels of Validations.
5. Describe Compatibility Testing.

Security in Computing(USIT602)

Questions: Advanced Learner

1. How the different security controls protect systems against various threat vectors? Explain.
2. Give the various categories of security controls and its implementation strategy.
3. Explain the zones of trust.
4. Explain CHAP and MS-CHAP.

5. Explain working of Kerberos.
6. What is SIEM? What are its features?
7. List the various VoIP components. Explain any 2.
8. What is hypervisor? How to protect the hypervisor?
9. How to protect the guest OS, virtual storage and virtual networks?
10. Explain any two confidentiality risks associated with cloud computing and their remediation.

Questions: Slow Learner

11. What is APT? Explain in detail
12. Explain a defense model – Lollipop model
13. Describe a DDoS attack. Explain its types.
14. Explain perimeter blockade and open access models.
15. Write the steps for creating a security defense plan.
16. Explain storage networks.
17. Explain Espionage, Packet Sniffing and Packet Replay.
18. Write a short note on classification of assets.
19. Explain any 5 criteria for choosing site location for security?
20. Write a short note on strategies for securing assets.

Assignments

1. Write a short note on evolution of information security.
2. Describe three Ds of security in context of your own home.
3. Write a short note on TCSEC.
4. Explain Role Based Authorization (RBAC).
5. Explain different types of ICMP messages.

Business Intelligence(USIT603)

Questions: Advanced Learner

1. Explain major potential advantages deriving from the adoption of DSS.
2. Describe development of decision support system
3. Explain the process of problem-solving.
4. Describe the structure of Mathematical Model.
5. Explain following classes of mathematical models in details:
 - i Predictive Models.
 - ii Pattern recognition and learning models.
 - iii Optimization models.
 - iv Project management models.
 - v Risk analysis models.
6. Describe all phases of development of mathematical model.
7. What are the characteristics of clustering method?
8. Explain K-mean method.
9. Explain optimization models for Logistics Planning.
10. Explain Efficient Frontier, Efficiency measures in details.

Questions: Slow Learner

1. What is Data, Information, Knowledge, Wisdom?
2. Compare Artificial Intelligence and Natural Intelligence.
3. What is Supply chain management? How can it be optimized? Explain with examples.
4. Write a short note on Sales force arrangement
5. Write short note on nominal attributes.
6. Write a short note on the Bayesian method.
7. What is meant by Data Validation? Explain it in brief with different kinds of it.
8. Draw and explain the architecture of data mining.
9. Explain various new components of DSS structure?
10. Explain the importance of Ethics in Business Intelligence.

Assignments

1. Explain major components of Business Intelligence.
2. Write short note on role of mathematical model.
3. Write short note on Data Reduction.
4. Explain the ROC curve chart. Explain the cumulative gain and lift chart.
5. Explain Multi-level Feed-Forward Network.

Principles of Geographic Information Systems(USIT604)

IT Service Management(USIT606)

Questions: Advanced Learner

1. Elaborate Service Life Cycle of ITSM.(OR Draw and explain Service lifecycle)
2. Who is a Service Provider? What are its types?(OR List and explain various service providers in ITSM)
3. Explain in detail about Service Level Management process of Service design.
4. Explain the Sub-Processes in Capacity Management. (OR What is the goal of capacity management? List and explain the sub-processes of capacity management)
5. Explain service V model.
6. Write a short note on the DIKW Model of ITIL Knowledge Management.
7. Write a short note on Operational Health in Service Operation Phase.
8. Write a short note on Meetings in regards with Service Operation Phase.
9. List and Explain Sub-Processes of Process Evaluation.
10. What is Benchmarking? Explain its procedure.

Questions: Slow Learner

1. What do you mean by ITSM? What are the issues related to ITSM?
2. What is ITIL? List its various stages
3. Define Service Design. List and explain its goals.
4. Explain in detail about Subsequent design activities.
5. What is Service Transition? Explain its Objective and Goals.

6. Explain ITIL Change Management life cycle.
7. What is Incident Prioritization?
8. What is a service operation module?
9. Explain Continual Service Improvement with its Objectives and Scope.
10. Write a short note on the Seven-Step Improvement Process.

Assignments

1. Write short note on Pattern of Business Activity
2. List and Explain activities of Information Security Management process.(OR What is the goal of Information Security Management?)
3. What is Change Management? What are the goals & objectives of change management? List and explain different types of changes.
4. Explain Objective, Purpose and Scope of Event Management Process
5. Write short note on Service Knowledge Management