Set of Important Questions
(Model Test Paper)

1. Explain various software estimation tools.
2. Explain management activities in a software project.
3. Explain size and effort relationship in detail.
4. Explain V life cycle model in detail.
5. Explain Spiral model.
6. Explain controlled requirement expression.
7. Explain feature oriented domain analysis.
8. Explain IBIS.
9. What do you mean by SSM?
10. What is JAD?
11. Explain prioritization and consolidation.
12. Explain requirement elicitation in detail with diagram.
13. What do you mean by requirement gathering?
14. Explain SRS IEEE format.
15. What's the significance of SRS?
16. Describe requirement definition.
17. Explain COCOMO in detail.
18. Explain COCOMO-II in detail.
19. Differentiate between COCOMO and COCOMO-II.
20. Describe FPA.
21. Explain analogy.
22. Explain Mark-II FPA.
23. Differentiate between FPA and Mark-II FPA.
24. What do you understand by EI, EO and EQ?
25. Explain conversions between size measures.
26. Explain GSC's in FPA and Mark-II FPA.
27. What is requirement engineering?
28. Justify the statement "Well begun is half done".
29. What is software estimation? Explain various software estimation techniques.
30. Show the size and effort relationship graphically.
31. Describe the terms: size, cost and effort estimation in terms of a software project.
32. Explain requirement change management and requirement traceability.
33. Explain various steps involved in requirement definition.
34. Explain CORE.

Neha Sharma
Assistant Professor
IT

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35. What are the steps for a software project? Explain each step briefly?
36. What is requirement ? Distinguish between functional and nonfunctional requirements?
37. Describe the tasks involved in requirement elicitation?
38. Justify "Waterfall model is the base unit of all other life cycle models".
39. What is DFD and how is it best used ?
40. What all does requirement comprise of ?
41. What is Project Quality Assurance?
42. Explain STD.
43. Explain software life cycle.
44. What are the common problems with an SRS?
45. Briefly Explain Estimation by anology.
46. Explain the estimation factors which effect the productivity?
47. Write a short note on
    (a) Process Maturity
    (b)Validating Software Estimates.
48. Discuss the technique for s/w size estimation based on team of experts.
49. Compute the unadjusted function points for the following:
    No. of external i/p=13
    No. of external o/p=7
    No. of external inquery=7
    No. of internal logical files=5
    No. of external interface files=2
50. What are scaling factors used in COCOMO II? Explain each scaling factor .How do these differ from effort multipliers?
51. Describe Object points and explain how they can be computed?
52. Describe Requirement Elicitation by Brainstorming and Interviewing methods?
53. Write the Watson and Felix Model.
54. What is process? What are the benefits of a process oriented approach ? Why is a process- oriented approach especially relevant for software projects as compared to a product- oriented approach? What are the advantages and disadvantages of Function points?
55. Explain behavior of software projects and Norden Rayliegh curve.
56. What is process? What are the benefits of a process oriented approach ? Why is a process- oriented approach especially relevant for software projects as compared to a product- oriented approach?What are the advantages and disadvantages of Function points?
57. Explain complexity as Estimator?
58. . Explain in brief Putnam Estimation model and its importance in estimation.
59. Both over estimation and under estimation are costly. Explain.
60. What is productivity ? What factors does productivity depend on?
61. What is the importance of prototyping in analysis?
62. Describe pros and cons of prototyping.
63. Write short note on following:

Neha Sharma

Assistant Professor

IT

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    (a) Caliber –RM
    (b)XTie-RT
    (c)Vital Link
    (d)Requisite Pro

64. Expand the following terms:
(1) CCB,(2)ILF.(3)IBIS,(4)BLC,(5)COCOTS
65. Explain Requirement analysis Models.
66. Describe desirable features of requirements management tools.
67. Describe what an SRS should cover and give a possible table of contents of SRS.
68. Calibrate the accuracy and suitability of formula" VAf=(UFP *0.001)+0.65" based on rating of 14 GSC's?
69. Discuss various stages in "Change Management Process"?How do you maintain requirement s Traceability and give advantages of it.
70. Write an example documentation for elicitation of any functional requirements of any s/w system as per the methodology developed by Horst Kittel?
71. Write an example documentation for elicitation of any functional requirements of any s/w system as per the methodology developed by Horst Kittel?
72. How do we determine the complexity of different function points and discuss the procedure of counting the enhancement project function points using IFPUG's FPA method.
73. Compute Function pont Value for a project with the following information domain characteristics:
No.of user inputs=30,user outputs=42,user enquieries=08,no.of files=07,external files=06.Assume all complexity adjustment factor are moderate.
74. Explain LOC Estimation.
75. For your college library system, write the SRS document following the IEEE standards.
76. How can new Software QA processes be introduced in an existing organization?
77. What is the difference between Bug and Defect?
78. What is verification and validation?
79. What are some recent major computer system failures caused by software bugs?

Neha Sharma

Assistant Professor

IT