

Time: 3 hr

Total Marks: 80

Please check whether you have got the right question paper.

Note:

- 1. Question No. 1 is compulsory.**
- 2. Attempt any three questions from remaining five questions.**

- Q.1. a) Describe the project life cycle with suitable diagram. 10
- b) Consider a project with the following functional units: 10
- Number of user inputs = 60
 - Number of user outputs = 50
 - Number of user enquiries = 45
 - Number of user files = 07
 - Number of external interfaces = 05
- Assume all complexity adjustment factors and weighting factors are average.
Compute the function points for the project.
- Q.2. a) Differentiate between functional and non functional requirements in detail. 10
- b) Consider a project to develop a full screen editor of size 512 KLOC. Determine: 10
1. Overall cost and schedule estimates, assume cost drivers as
Required s/w reliability is high (1.15), product complexity is high (1.15),
analyst capability is very high (0.86)
 2. Phase wise efforts for: System design phase (0.18), detailed design phase
(0.24), module code and test phase (0.24)
 3. Phase wise development time for: Plan & requirement (0.40), detailed
design phase (0.16), integration & test phase (0.32)
(ai=2.8, bi=1.20, ci=2.5, di=0.32)
- Q.3. a) Explain the different types of contracts in detail. 10
- b) What are the different steps involved in project risk management? Explain. 10
- Q.4. a) What is project scope management? Explain benefits of scope control. 10
- b) Explain the role and responsibilities of project manager. 10

Q.5. a) Explain Fish Bone diagram, Pareto diagram, Quality Control charts techniques for quality control. 10

b) Explain spiral model and its advantages. 10

Q.6. Short Note (any 4 out of 5) 20

- a) Warnier Orr diagram
- b) Extreme Programming
- c) Stakeholder Management
- d) Acquiring Project Team
- e) Earned Value Analysis
