Sub: Software Engineering and Project Management

Q.P. Code : 01597

[Time: - 3 Hours]

[Marks: 80]

1. a) Explain Waterfall model in detail.   10
    b) What is outsourcing and explain its different types.   10

2. a) Explain the Feasibility study and its types and need.   10
    b) Explain the Project Life cycle.   10

3. a) What are requirement Elicitation techniques? List and brief them in detail.   10
    b) Explain the Knowledge areas of Project Management.   10

4. a) Assume that the size of organic type s/w project has been estimated to be 35 KLOC.   10
        The Avg. Determine the effort required to develop the s/w product & development time,
        average staff size and productivity for all three modes. Given:
        Organic (a1=2.4, a2=1.05, b1 = 2.5, b2 = 0.38), semi-detached (a1 = 3.0, a2 = 1.12, b1 = 2.5, b2 =
        0.35) Embedded (a1 = 3.6, a2 = 1.20, b1 = 2.5, b2 = 0.3)
    b) Explain the structured walkthrough in detail?   10

5. a) Explain Procurement Management in detail.   10
    b) Consider a project with following functional units: 10
        No. of user inputs = 50
        No. of User outputs = 40
        No. of User Inquiries = 35
        No. of User files = 06
        No. of External Interfaces = 04
        Assume all Complexity adjustment factors and weighting factors are average.
        Compute the Function point for the project.

7. Short Note (any 4 out of 5)   20
        a) Resource loading
        b) Reliability Metrics
        c) 3 R in software engineering
        d) Role of Project Manager
        e) Extreme Programming

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