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|  | Explain the various design concepts in software engineering. |
|  | Define Software Engineering and explain its layers in brief. |
|  | Explain the various software engineering paradigms with example. |
|  | Discuss advantages and disadvantages of (process model). Explain where to use the (process model)? |
|  | Draw and Explain (any process model) with diagram. |
|  | Define Agility. Explain its principals. |
|  | Explain requirements engineering steps in brief. |
|  | Explain the elicitation step in requirements engineering |
|  | Draw the analysis model clearly depicting the four elements. |
|  | Explain FP estimation method with suitable diagram |
|  | Explain Work Breakdown Structure. |
|  | What do you mean by task network diagram? Explain with example |
|  | Problems on Critical Path Method |
|  | Compare size oriented and function oriented metrics |
|  | Explain in detail the Intermediate COCOMO model |
|  | Explain (any) COCOMO I model |
|  | Explain (any) COCOMO II model |
|  | Write short note on CMMI levels. |
|  | Explain the different types of architectural styles and patterns with diagram |
|  | Discuss on Modularity and Functional Independence fundamentals of design concepts. |
|  | Explain in brief the different types of coupling and cohesion. Give one practical example of high cohesion and low coupling |
|  | Discuss Abstraction, Information Hiding and Functional Independence. |
|  | Drawing all UML diagrams on a given case study   1. Library management system 2. Tours & Travel management 3. E-banking system 4. Retail store management 5. Hotel management 6. Hospital management |