



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
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**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code:** Software Project Management (20CS0544)

**Course & Branch:** B.Tech / CAD)

**Year & Sem:** IV/I

**Regulation:** R20

**UNIT –I**  
**PROJECT EVALUATION AND PROJECT PLANNING**

<b>1</b>	What is the importance of software project management and explain different activities methodologies, setting objectives covered by software project management?	[L2][CO1]	<b>[12M]</b>
<b>2</b>	Draw the architecture of SDLC explain it in detail?	[L3][CO1]	<b>[12M]</b>
<b>3</b>	Explain the following: a) Categorization of software projects b) Setting objectives in software projects	[L2][CO1] [L2][CO1]	<b>[6M]</b> <b>[6M]</b>
<b>4</b>	Define management. Explain project management principles along with management control life cycle in detail.	[L1][CO1]	<b>[12M]</b>
<b>5</b>	Describe Project Portfolio Management in brief with suitable examples.	[L2][CO1]	<b>[12M]</b>
<b>6</b>	State and explain the different types of cost benefit evaluation techniques with suitable examples?	[L2][CO1]	<b>[12M]</b>
<b>7</b>	Outline the Evaluation of the Risk Process in detail.	[L2][CO1]	<b>[12M]</b>
<b>8</b>	Explain briefly strategic program management.	[L2][CO1]	<b>[12M]</b>
<b>9</b>	Illustrate Stepwise project planning with a neat diagram.	[L2][CO1]	<b>[12M]</b>
<b>10</b>	Explain the following terms: a) Activities & methodologies b) Management control	[L2][CO1] [L2][CO1]	<b>[6M]</b> <b>[6M]</b>

**UNIT –II            PROJECT LIFE CYCLE AND EFFORT  
ESTIMATION**

<b>1</b>	List out the different Software process models? Explain with a neat diagram the various stages involved in the waterfall model?	[L2][CO2]	<b>[12M]</b>
<b>2</b>	Demonstrate the following process models <b>a.</b> The Spiral Model <b>b.</b> Rapid Application Development	[L2][CO2] [L2][CO2]	<b>[6 M]</b> <b>[6 M]</b>
<b>3</b>	Explain various approaches involved in Agile Methods of process model.	[L2][CO2]	<b>[12M]</b>
<b>4</b>	Describe incremental delivery Plan model along with iterative process model?	[L3][CO2]	<b>[12M]</b>
<b>5</b>	What is software prototyping and explain it in detail with suitable examples?	[L1][CO2]	<b>[12M]</b>
<b>6</b>	Define SCRUM. Discuss with a neat diagram macro and micro processes that you observed in managing iterative processes.	[L1][CO2]	<b>[12M]</b>
<b>7</b>	Describe various software effort and cost estimation techniques including examples.	[L3][CO2]	<b>[12M]</b>
<b>8</b>	Explain in brief bottom-up and top-down approaches in software effort estimation?	[L2][CO2]	<b>[12M]</b>
<b>9</b>	How the COSMIC full function point can be explore based on effort estimation techniques?	[L1][CO2]	<b>[12M]</b>
<b>10</b>	Illustrate the following: <b>a.</b> Staffing pattern with Norden’s work and Putnam’s works. <b>b.</b> Basics of Software Estimation	[L2][CO2] [L2][CO2]	<b>[6M]</b> <b>[6M]</b>

**UNIT –III**  
**ACTIVITY PLANNING AND RISK MANAGEMENT**

<b>1</b>	List out the objectives of activity planning? Draw with a neat sketch of Sequencing and scheduling.	[L1][CO3]	<b>[12M]</b>
<b>2</b>	Illustrate different activity based approaches involved in Activity Planning?	[L2][CO3]	<b>[12M]</b>
<b>3</b>	Define critical path method. Evaluate the critical path based on forward pass and backward pass techniques?	[L1][CO3]	<b>[12M]</b>
<b>4</b>	Explain in brief a framework for dealing with risk.	[L2][CO3]	<b>[12M]</b>
<b>5</b>	Summarize the following: a. Risk Identification b. Risk Assessment	[L2][CO3] [L2][CO3]	<b>[6M]</b> <b>[6M]</b>
<b>6</b>	Describe Two Network Planning models in Activity Planning in brief.	[L3][CO4]	<b>[12M]</b>
<b>7</b>	Explain about the PERT technique. What are the advantages & disadvantages observed in PERT Technique ?	[L2][CO4]	<b>[12M]</b>
<b>8</b>	Explain seven categories of the nature of resources. How can you identify resource requirements in producing a project?	[L2][CO4]	<b>[12M]</b>
<b>9</b>	Explain various activities involved in creating critical paths or critical patterns?	[L2][CO4]	<b>[12M]</b>
<b>10</b>	Describe in detail about cost scheduling impact would be there on a project.	[L3][CO4]	<b>[12M]</b>

**UNIT –IV**  
**PROJECT MANAGEMENT AND CONTROL**

<b>1</b>	Explain Creation of Framework for Project Management and Control?	[L2][CO5]	<b>[12M]</b>
<b>2</b>	Demonstrate the Collection of Data Project Termination with suitable examples.	[L2][CO5]	<b>[12M]</b>
<b>3</b>	Explain the following terms in brief i) Review ii) Project Termination Review	[L2][CO5] [L2][CO5]	<b>[6M]</b> <b>[6 M]</b>
<b>4</b>	Illustrate the visualizing progress in Project Management and Control?	[L2][CO5]	<b>[12M]</b>
<b>5</b>	Explain Cost Monitoring in Project Control with simple examples?	[L2][CO5]	<b>[12M]</b>
<b>6</b>	Illustrate the Earned Value Analysis in project management control?	[L2][CO5]	<b>[12M]</b>
<b>7</b>	What is meant by project Monitoring explain it in detail?	[L1][CO5]	<b>[12M]</b>
<b>8</b>	Write short notes on i) Project Tracking ii) Change Control	[L2][CO5] [L2][CO5]	<b>[6M]</b> <b>[6M]</b>
<b>9</b>	Explain about Software Configuration Management Control in detail?	[L2][CO5]	<b>[12M]</b>
<b>10</b>	List out the various types of Contracts in contract management explain in detail.	[L1][CO5]	<b>[12M]</b>

**UNIT –V**  
**STAFFING IN SOFTWARE PROJECTS**

<b>1</b>	Describe in detail about Managing People in Software Environment.	[L3][CO6]	<b>[12M]</b>
<b>2</b>	Explain the organizational Behavior of staffing in software projects?	[L2][CO6]	<b>[12M]</b>
<b>3</b>	List out the methods of Staff Selection among those methods which are best methods explain it?	[L1][CO6]	<b>[12M]</b>
<b>4</b>	Explain in detail the Old Hackman Job Characteristic Model in software projects?	[L2][CO6]	<b>[12M]</b>
<b>5</b>	Discuss Ethical and Programmed concerns in briefly?	[L6][CO6]	<b>[12M]</b>
<b>6</b>	Write short notes on i) Stress, Health and safety ii) Motivations	[L1][CO6] [L1][CO6]	<b>[6M]</b> <b>[6M]</b>
<b>7</b>	What is the role of decision making in software projects and explain in detail?	[L1][CO6]	<b>[12M]</b>
<b>8</b>	Illustrate the following: i) Team Structure ii) Virtual Teams	[L2][CO6] [L2][CO6]	<b>[6M]</b> <b>[6M]</b>
<b>9</b>	Illustrate the Communication Genres with simple examples.	[L2][CO6]	<b>[12M]</b>
<b>10</b>	Define Communication Plan. Write down the results of communication plan in projects.	[L1][CO6]	<b>[12M]</b>