**Unit II Project Design and Evaluation**

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|  |  | **Semester: I** |
| **Subject: SPM** |  | **Class: BE** |

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| **Que. No.** | **Question** | **Level of Mapping & Number** | | | **Blooms Level** | **Marks** |
| **CO** | **PO** | **PSO** |
| 1 | What is project design? Why is it important in software projects? | CO2 | PO1, PO2 | PSO1 | 2 | 6 |
| 2 | Define and explain the purpose of a Use Case diagram with an example. | CO2 | PO1, PO2 | PSO2 | 1 | 6 |
| 3 | Draw and explain a Class diagram for an Online Shopping System. | CO2 | PO2, PO3 | PSO2 | 3 | 8 |
| 4 | Describe the Activity diagram and its use in project design. | CO2 | PO1, PO4 | PSO2 | 2 | 6 |
| 5 | Illustrate a State diagram for the order processing component in an e-commerce project. | CO2 | PO3, PO5 | PSO2 | 3 | 6 |
| 6 | Draw a Sequence diagram to model user login functionality. | CO2 | PO3, PO5 | PSO2 | 3 | 6 |
| 7 | What is a Deployment diagram? How is it useful in system design? | CO2 | PO1, PO2 | PSO2 | 2 | 6 |
| 8 | Define Project Evaluation and explain its importance. | CO2 | PO1, PO2 | PSO1 | 1 | 6 |
| 9 | Discuss any two Cost-Benefit Evaluation Techniques. | CO2 | PO1, PO4 | PSO1 | 2 | 6 |
| 10 | What is process evaluation and why is it essential in project management? | CO2 | PO1, PO2 | PSO2 | 2 | 6 |
| 11 | Describe the steps involved in the Process Improvement Cycle. | CO2 | PO2, PO4 | PSO1 | 2 | 6 |
| 12 | Explain the GQM Paradigm for process measurement with an example. | CO2 | PO3, PO5 | PSO1 | 3 | 6 |
| 13 | What are the key techniques used for process analysis? | CO2 | PO2, PO4 | PSO2 | 2 | 6 |
| 14 | Explain the Process Change Process and its significance. | CO2 | PO2, PO6 | PSO1 | 2 | 6 |
| 15 | Perform a Cost-Benefit Analysis for an Online Shopping System using MS Excel. | CO2 | PO3, PO5, PO12 | PSO2, PSO3 | 6 | 8 |