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| ? | **Master Test Plan (MTP) and Level Test Plan (LTP)** |
| ? | **Level Test Design (LTD)** |
| ? | **Master Test Report (MTR) and Level Test Report (LTR)** |
| ? | **Test Summary Report (TSR)** |
| Junior | Purpose, Content of document (in general) |
| Middle | Purpose, Content of document according to the IEEE Std 829 |
| Senior | Mapping of document to phases in STLC with examples (in which phase created, by whom, etc.) |
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| ? | **Level Test Case (LTC)** |
| ? | **Level Procedure (LP)** |
| ? | **Anomaly Report (AR)** |
| Junior | Purpose, Content of document (in general) |
| Middle | Purpose, Content of document according to the IEEE Std 829 |
| Senior | Mapping of document to phases in STLC with examples (in which phase created, by whom, etc.) |
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| ? | **Checklist** |
| Junior | Purpose, Content of document |
| Middle | Types of checklist, advantages/disadvantages of using |
| Senior | Comparison with Test Case, examples when to use |
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| ? | **Testing Documentation Improvements** |
| Junior | NA |
| Middle | List few examples of improvements of your project documentation (TC, checklists) |
| Senior | Explain the need for doc improvements, potential benefits |
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| ? | **Metrics in Testing** |
| Junior | NA |
| Middle | Definition of metric, kinds, purpose, examples |
| Senior | Explain in which documents those metrics are used. Who is responsible for metric’s identification, gathering and reporting. List metrics which can be gathered from each phase of STLC. |
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| ? | **Metrics in Testing** |
| Junior | NA |
| Middle | List few examples of improvements on your project according to STLC. |
| Senior | Explain the need for process improvements, potential benefits and risks |
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| ? | **Risk-based Testing** |
| Junior | NA |
| Middle | Definition of risk and risk level, types, examples of each category risk. Purpose of Risk-based testing (in general) |
| Senior | Explain Risk identification, analysis, monitoring and control activities. Organization Risk-based testing in STLC. Risk identification and risk contingency effectiveness metrics. |
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| ? | **Scrum/Kanban methodologies** |
| Junior | What is SCRUM: key, ideas, roles, artifacts, meetings. |
|  | What is Kanban: key ideas, Kanban board. |
| Middle | Main differences between Scrum/Kanban. |
| Senior | Poker planning in scrum (Delphi method for estimation) |
| Velocity in scrum. |
| Work in progress limit in Kanban. Benefits and risks in Scrum/Kanban |
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| ? | **Software Development Life Cycle (SDLC)** |
| Junior | Main phases. Waterfall, V model. Advantages, disadvantages, when to use each model. |
| Middle | RAD, Iterative. Advantages, disadvantages, when to use each model. |
| Senior | Incremental (XP), spiral, prototype models. Advantages, disadvantages, when to use each model. |
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| ? | **Fundamental Test Process** |
| Junior | Main testing activities in general. |
| Middle | Main testing activities in general. Major tasks of each phase. Test deliverables for each phase. Who is responsible for execution of each phase. |
| Senior | Mapping STLC phases with SDLC. Importance of test closure activities. |
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| ? | **Test Strategy (Approaches)** |
| Junior | NA |
| Middle | What is test strategy, approaches. What test documentation contains information about approaches. Proactive and reactive strategies. List kinds of strategies. |
| Senior | Explain in details main idea of each strategy. |
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| ? | **Test Scheduling** |
| Junior | NA |
| Middle | What is test scheduling. In which phase of STLC this activity takes place. Which factors can influence on test scheduling. Which document contains info about test scheduling. |
| Senior | Explain two scheduling approaches: expert-based and metrics-based. When to use each kind of approach. |
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| ? | **Software Quality Characteristics** |
| Junior | NA |
| Middle | What is software quality. List functional and nonfunctional software quality attributes/sub attributes. |
| Senior | Give some examples for each quality attribute. |
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| ? | **Test Coverage** |
| Junior | NA |
| Middle | What is coverage. What can be covered. Formula for calculating test coverage. Importance of this metric. List 3 kinds of coverage. |
| Senior | Explain in details control-flow coverage (give some examples). Levels of control-flow coverage: - Statement; - Decision; - Condition; - Path. Advantages and disadvantages of each level’s coverage. |
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| ? | **Impact Analysis** |
| Junior | NA |
| Middle | What is impact analysis. Why impact analysis is done. Advantages of impact analysis. Who performs such analysis. Role of impact analysis in regression testing. |
| Senior | Impact analysis in Maintenance testing. |
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| ? | **Impact Analysis** |
| Junior | NA |
| Middle | What is static analysis. What kind of errors can be found via static analysis. Static analysis for developer, QA engineer. The compiler like a simple static analysis tool. List and explain kinds of static analysis (Control Flow, Data Flow) |
| Senior | Metrics derived from static analysis. List static analysis tool. |
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| ? | **Test Design Techniques** |
| Junior | What is TDT, purpose of TDT. Main categories of TD techniques: - Static and dynamic; - White-box, grey-box, black-box;  List and explain kinds of structure-, -experience- and specification-based TDT. |
| Middle | Give examples of using each type of TDT. Explain when to use each TDT in practice. List kinds of Review. What is Formal and Informal review? List main phases, roles and responsibilities in Formal review. |
| Senior | List some ‘not typical’ TDT (cause-effect testing, pairwise testing, orthogonal array testing, etc.) |
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| ? | **Testing Levels** |
| Junior | What is Testing level. List and explain (in general) testing levels: - Unit; - Component; - Integration; - System; - Acceptance. |
| Middle | Explain in details each level of testing (by whom it’s done, what is object of testing). Explain approaches in Integration level. |
| Senior | Give example of Entry/Exit criteria for each level. List what TDD can be used on different testing levels. |
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| ? | **Testing Types** |
| Junior | What is Testing type. List and explain (in general) testing categories and types: - Functional; - Non-functional; - Change related; |
| Middle | Explain in details each testing type. Give some examples. |
| Senior | Explain structural testing. Difference between functional and structural testing. On which levels structural testing occurs. |
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| ? | **Bug Reporting/Defects management** |
| Junior | What is defect, bug. Defect data in Bug report. Defect states and workflow (in general) |
| Middle | Explain defect life cycle (in detail, with examples). |
| Senior | Examples of process improvements using defect report information. |