Structured Common Questions from Three Exam Papers

Format Mirrored from First Paper

Que. 1(a) Attempt any six: (06 Marks)

1. Define: System Analysis.

2. What is an End User?

3. Give full form: **SPM** (Software Project Management).

4. What is a Sub-System?

5. What is a Prototype?

6. Give full form: **SADS** (Structured Analysis and Design Specification).

7. Define: Data Dictionary.

8. Define: **System**.

9. What is **SDLC**?

10. Full form of **SSADM** (Structured Systems Analysis and Design Method).

Que. 1(b) Answer the following (Any Two): (12 Marks)

1. Describe the various **Fact-Finding Techniques** in detail (Interviews, Questionnaires, Observation, Record Review).

2. List and explain the **Phases of SDLC** (Requirements, Analysis, Design, Implementation, Testing, Maintenance).

3. Explain **Types of Systems** in detail (Physical, Abstract, Open, Closed).

4. Difference between **Logical DFD vs Physical DFD**.

Que. 2(a) Do as directed (Any Two): (05 Marks)

1. What is **Code**? How is it used in a system?

2. Define: **Data Validation**.

3. List out **Types of Output** (External, Internal, Graphical, Tabular).

4. Define: **Check Digits**.

5. What is **Coupling**?

Que. 2(b) Answer the following (Any Two): (12 Marks)

1. Describe the **basic principles of Form Design** (Clarity, Consistency, Efficiency).

2. Discuss the **components of CASE Tools** (Diagramming Tools, Code Generators, Documentation Tools).

3. Explain **Output Media** in detail (Printers, Screens, Cloud Storage).

4. Explain **Code Design Principles** (Simplicity, Uniqueness, Flexibility).

4. Explain **Code Design Principles** (Simplicity, Uniqueness, Flexibility).

Que. 3(a) Do as directed (Any Two): (06 Marks)

1. What is a **Flowchart**? Describe different **Flowchart Symbols** (Start/End, Process, Decision).

2. Define: **Black-Box Testing** and **White-Box Testing**.

3. What is **Conversion**? Explain in short (Data migration from old to new system).

4. Fill in:

   ◦ (i) **VTOC** (Vertical Table of Contents)

   ◦ (ii) **HIPO** (Hierarchical Input Process Output).

Que. 3(b) Answer the following (Any Two): (12 Marks)

1. Explain **HIPO Chart** with an example.

2. What is **Testing**? Discuss the **levels of Testing** (Unit, Integration, System, Acceptance).

3. What is **Documentation**? Explain it in detail (User Manuals, Technical Guides).

Que. 4 Draw and discuss the different levels of DFDs for "PAYROLL SYSTEM" in detail. (17 Marks)
OR
Que. 4(a) Do as directed (Any Two): (05 Marks)

1. What is **DFD**? List symbols used in DFD (Process, Data Flow, Data Store, External Entity).

2. Differentiate: **Logical DFD vs Physical DFD**.

3. Define: **User Interface**.

Que. 4(b) Answer the following (Any Two): (12 Marks)

1. Explain the **Characteristics of a System** (Boundaries, Inputs/Outputs, Interdependence).

2. Write a short note on **Decision Table**.

3. Discuss **System Prototype Method** in detail.

Note:

• Questions are structured to mirror the original paper's format (e.g., short answers in 1(a), detailed explanations in 1(b)).

• Common topics like **DFD**, **SDLC**, **Testing**, and **Code Design** are consolidated under corresponding sections.

• Marks allocation follows the first paper's pattern.