AC-150

April-2019

2ⁿᵈ Year (Integrated) M.Sc. (CA & IT), Sem.-IV

System Analysis Design and Modelling

Time : 2:30 Hours] **[Max. Marks : 70**

1. Answer the following : (any **two**) **14**

   (1) What is the System Development Life Cycle ? Explain all the activities it includes.

   (2) What is the purpose of a preliminary investigation ? What outcome is expected ? Who carries out this investigation ? On what basis is it initiated ?

   (3) What is Requirements Determination ? Explain all major activities involved in requirements determination.

2. Answer the following : (any **two**) **14**

   (1) What is a Data-Flow analysis ? Explain advantages and tools for Data - Flow analysis.

   (2) Discuss the steps in the prototype method, indicating the expected outcome for each step.

   (3) What is structured analysis ? Explain all techniques in detail.

3. Answer the following : (any **two**) **14**

   (1) Explain CASE tools functionality, benefits and weakness.

   (2) What objective guide the systems analyst in designing an information system ?

   (3) Explain following :

   (a) Fourth Generation Language.

   (b) Screen Generator.

4. (A) Answer the following : (any **two**)   **10**

    (1) Define Output. What are the analyst's objectives in designing output ?

    (2) Describe the types of data that should always be part of systems input. Which types of data should not ordinarily be input ?

    (3) Explain Coding Method for input Design. Explain each method with appropriate example.

  (B) Answer the following : (any **one**)   **4**

    (1) What is the purpose of Interface ?

    (2) What is Keyword Dialogue ?

5. (A) Answer the following : (any **two**)   **10**

    (1) Write a short note on HIPO.

    (2) What methods are used for system conversion ? Explain each method and its advantage and disadvantage.

    (3) What is Communication Control Unit ? Explain Multiplexor and Concentrator in details.

  (B) Draw Bar chart (Gantt chart) for following :   **4**

Activities	A1	A2	A3	A4	A5	A6	A7
TIME(WEEK)	2	2	5	3	3	4	2
START TIME(week)	1	2	3	2	4	7	9

Find free time in Bar chart.

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