



5. \_\_\_\_\_ represents the individual data and control objects that constitute some larger collection of information transformed by the software.
- (a) Information content                      (b) Flow chart  
(c) Gantt chart                                (d) Pert chart
6. \_\_\_\_\_ represents the internal organization of various data and control items.
- (a) Pie chart                                    (b) Information structure  
(c) Information content                      (d) None of the above
7. \_\_\_\_\_ decomposes a problem into its constituent parts.
- (a) Partitioning                                (b) Merging  
(c) Analysis                                    (d) Maintenance
8. \_\_\_\_\_ is a repository that contains description of all data objects.
- (a) Data Dictionary                          (b) Data Model  
(c) Gantt Chart                                (d) Pert Chart
9. The \_\_\_\_\_ depicts relationships between data objects.
- (a) DFD                                         (b) ERD  
(c) Data Dictionary                          (d) All of the above
10. A \_\_\_\_\_ is a representation of almost any composite information that must be understood by software.
- (a) Data object                                (b) Attribute  
(c) Relationship                                (d) None of the above
11. Draw E-R diagram for a Student Information System. Make necessary assumptions.
12. Explain any two common errors that may occur during Design phase of a project.
13. What is the role of a systems analyst ?
14. Give an example of a Software Development Project that is not suitable to be developed using Prototype model. Justify your answer.

## SECTION-B

*Answer any three of the following questions. Each question carries 15 marks.*

15. What is SRS ? Explain its components.
  
  16. Draw detailed (upto 3 levels) DFDs for various processes involved in allocating tele learning centre to students. Make necessary assumptions.
  
  17. Explain the disadvantages of Water Fall Model. Compare Water Fall Model with Spiral Model.
  
  18. Write atleast two reasons for one activity to precede another activity before second activity can begin.
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