

**Bachelor in Information Technology (BIT)****Term-End Examination****June, 2010**

00368

**CSI-02 : SYSTEMS ANALYSIS***Time : 3 Hours**Maximum Marks : 75*

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**Note :** *Section - A is compulsory. Questions 1 to 10 of Section - A carry one mark each. Questions 11 to 14 carry 5 marks each. Answer any three questions from Section - B. Each question of Section - B carries 15 marks.*

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**SECTION-A**

1. \_\_\_\_\_ defines the properties of a data object.  
(a) Attributes      (b) Variable      (c) Table      (d) None of the above
  
2. \_\_\_\_\_ is a software engineering task that bridges the gap between system level requirements engineering and software design.  
(a) Requirements Analysis      (b) Black Box Testing  
(c) White Box Testing      (d) None of the above
  
3. \_\_\_\_\_ is a measure of interconnection among modules in a software structure.  
(a) Length      (b) Errors      (c) Cohesion      (d) Coupling
  
4. \_\_\_\_\_ is an example of system software :  
(a) Payroll Processing System      (b) Operating System  
(c) Hospital Management System      (d) All of the above
  
5. \_\_\_\_\_ is an attribute, or a group of attributes, that assume a unique value for each entity instance.  
(a) Inheritance      (b) Key  
(c) Integer      (d) All of the above

6. \_\_\_\_\_ checks the requirements definition document for accuracy, completeness, consistency, and conformance to standards.
- (a) Requirements validation                      (b) DFD  
(c) Flow chart                                      (d) All of the above
7. \_\_\_\_\_ is a collection of records :
- (a) File                      (b) Structure chart                      (c) DFD                      (d) ERD
8. \_\_\_\_\_ is the first phase of the classic systems development process.
- (a) Maintenance                                      (b) Preliminary investigation phase  
(c) Design    (d) Coding
9. CMM stands for \_\_\_\_\_.
- (a) Capability Maturity Model                      (b) Cost Maturity Model  
(c) Capability Maintenance Model                      (d) None of the above
10. A Records is a collection of \_\_\_\_\_.
- (a) Fields                      (b) Integers                      (c) Characters                      (d) None of the above
11. Give an example of a Software Development Project which is suitable to be developed using Waterfall Model. Justify your answer.
12. Explain any two tasks that are performed during design phase of a Software Development Life Cycle.
13. What is a change request ? How is it processed ?
14. Explain the objectives of a Software Testing team ?

## SECTION-B

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

15. What is requirement analysis ? List 10 requirements of a Library Information System.
  
  16. Draw DFD's (upto 3<sup>rd</sup> level) in detail for various processes involved in an *Examination Information System*. Make necessary assumptions.
  
  17. What is need of design ? Explain any five principles of Design.
  
  18. What is E-R diagram ? What is a flow chart ? How do they differ ? Explain with the help of example of each. Also explain the role of foreign key in implementing relationships.
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