Roll No. | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(IT) (2011 Onwards) (Sem.–5)

SYSTEM ANALYSIS AND DESIGN

Subject Code : BTIT-501

Paper ID : [A2122]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. **Write briefly :**

a) What is a process model? What is a data flow diagram? Are the two related? If so, how?

b) Define module cohesion.

c) Define intangible costs and benefits. Give an example of each one.

d) What are the advantages of Top-Down design?

e) What is a class in object oriented design?

f) List the important features of input/output forms design.

g) Differentiate between Alpha testing & Beta testing.

h) Develop two use scenarios for a Web site that sells some retail products.

i) What is the difference between Logical DFD and Physical DFD?

j) Distinguish between systems flow charts and structured charts.

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SECTION-B

2. What are the important steps system analysts must follow to put together an effective systems proposal?

3. What is the industry use of Audit trials? Justify your answer with relevance to telecommunication, information and communication security, nursing research, accounting and online proofing industries.

4. What is meant by open-ended interview questions and close-ended interview questions? State benefits and drawbacks of using them. When are open-ended questions or closed-ended questions appropriate for use in interviewing?

5. What is a Class Diagram? Create a class diagram for Hospital Management System. Why is defining classes such an important object-oriented analysis task?

6. Explain why process of project planning is iterative and why a plan must be continually reviewed during software project.

SECTION-C

7. What are the seven types of cohesion? Give one example of good cohesion & one example of bad cohesion.

8. Describe the various phases of system development life cycle.

9. a) Compare and contrast white box testing & black box testing.

   b) Compare and contrast information change management strategies with Political change management strategies. Which is better?

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