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Total No. of Pages : 02

Total No. of Questions : 15

**MBA (2015 to 2017) (Sem.-4)**  
**SYSTEM ANALYSIS AND DESIGN**

Subject Code : MBA-988

M.Code : 71402

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A contains SIX questions carrying FIVE marks each and students has to attempt any FOUR questions.
2. SECTION-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.
3. SECTION-C is COMPULSORY and consist of ONE Case Study carrying EIGHT marks.

**SECTION-A**

- Q1. A system is an orderly grouping of interdependent components linked together according to a plan to achieve a specific objective.
- Q2. A decision making tree is essentially a diagram that represents, in a specially organized way, the decisions, the main external or other events that introduce uncertainty, as well as possible outcomes of all those decisions and events.
- Q3. Interpersonal skills of a system analyst deal with relationships and the interface of the analyst with people in business.
- Q4. The data model consists of three interrelated information - data objects, attributes that describe the data objects and relationships that connect data objects to one another.
- Q5. Test result file contains brief information about the total number of test cases executed, the number of errors and nature of errors.
- Q6. A good quality software design is the one, which minimizes the complexity and cost expenditure in software development.



**SECTION-B****UNIT-I**

- Q7. Define system. Discuss the various important components of a system taking a suitable example.
- Q8. Discuss the basic principles of successful systems. Give suitable examples.

**UNIT-II**

- Q9. "System Development Life Cycle is a systematic approach which explicitly breaks down the work into phases that are required to implement either new or modified Information System". Discuss.
- Q10. Discuss the various data and fact gathering techniques along with their features.

**UNIT-III**

- Q11. Discuss the various symbols used while creating an ER diagram. Give suitable examples.
- Q12. What is the role of system modeling? Differentiate between decision trees and decision tables.

**UNIT-IV**

- Q13. How performance of a system is measured? Discuss the various conversion methods.
- Q14. Why testing is performed? Describe the various testing strategies with suitable examples.

**SECTION-C****Q15. Case : A Railway reservation system functions as follows :**

The passenger fills in a reservation form giving his/her particulars and source and destination details. The counter clerk ensures whether seats is available or not from the reservation register, if seat is not available, the form is returned back to the passenger. Otherwise the clerk will prepare the tickets, compute the charges for the tickets and a booking statement is composed. One copy of the booking statement is retained as office copy, one is given to the train conductor and one copy is pasted on the compartment. A cash statement is prepared at the end of each shift.

**Question :**

- a. Prepare a data flow diagram for the above system.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**