

1867

**MBA 3rd Semester Examination**

**System Analysis and Design & Software Engineering (NS)**

**IT-03**

**Time : 3 Hours**

**Max. Marks : 60**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**SECTION - A**

1. Attempt all the following:

- (a) What are the typical software risks?
- (b) State any two difficulties in requirement elicitation.
- (c) What is the significance of software version?
- (d) What are the salient features of object oriented design in software engineering?
- (e) List any three traditional methods of collecting system requirements.
- (f) Define the term coupling with reference to object oriented design.
- (g) Differentiate between the terms authentication and authorization.
- (h) Comment on the statement "Software doesn't wear out."
- (i) What does Level O DFD represent?
- (j) What is economic feasibility? (2×10=20)

**[P.T.O.]**

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**SECTION - B**

2. Attempt any four from the following:
- (a) Explain the significance of data flow diagrams in analysing requirements.
  - (b) What are the various types of systems? Explain with example.
  - (c) What is the feasibility of the system? Also discuss the different feasibility parameters of a system.
  - (d) What is Risk Management? Explain various phases of risk management.
  - (e) During an object design, what are the minimum steps to be taken by the designer? Explain.
  - (f) Compare object oriented design with function oriented design. Give suitable example. (4×5=20)

**SECTION - C**

3. Attempt any two from the following:
- (a) Given software product and its requirement specification document, explain how would you design the system test unit suit for this software product?
  - (b) Explain the various methods through which requirements of a system are collected.
  - (c) What are the different types of relationships used in E-R diagram? Given an E-R diagram for a University Registrar Office. The office maintains data about each class, including the instructor, the enrollment and the time and place of the class meetings. For each student-class pair, a grade is recorded.
  - (d) What are the major security requirements for a system? How the intrusion detection for a system is done? Explain in detail. (2×10=20)
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