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**K 4535**

M.B.A. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Elective

BA 1739 — SOFTWARE DEVELOPMENT

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How is process related to product?
2. Define Risk. Give few examples.
3. Define requirements and list the different types of requirements.
4. How do you specify requirements?
5. Define software architecture.
6. Distinguish coupling from cohesion.
7. What is user interface design?
8. Who does the user interface design?
9. Define software reliability.
10. List few quality metrics.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the different phases of Software Development Life Cycle.(8)  
(ii) Compare process Vs product metrics. (8)

Or

- (b) (i) Define software and explain their characteristics. (8)  
(ii) What is risk analysis? Explain the steps involved in risk analysis. (8)
12. (a) (i) Enumerate the tools involved in the requirements engineering process. (10)  
(ii) What is prototyping? State their major purposes. (6)

Or

- (b) (i) Explain the steps involved in requirements analysis. (10)  
(ii) Give a template for software requirements specification. (6)
13. (a) (i) How does OO design methodology differs from the conventional design methodology? (10)  
(ii) What are the benefits offered by software architecture? (6)

Or

- (b) Explain the different types of available software design methodologies. (16)
14. (a) (i) State the importance of user interface design. (6)  
(ii) How do you achieve code efficiency? Explain. (10)

Or

- (b) (i) What is software configuration management? Explain the steps involved in SCM. (10)  
(ii) List few user interface standards. (6)
15. (a) Explain the different ways through which software quality assurance is achieved. (16)

Or

- (b) Explain the different types of testing stating their usage. (16)