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**Question Paper Code : Z 9370**

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Elective

Software Engineering

XSE 001 — SOFTWARE REUSE

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Why software reuse is needed?
2. Code reuse is also called software reuse. Justify.
3. What is a reuse repository?
4. Why do you manage a reuse repository?
5. State the OO components for reuse.
6. What is generic reuse?
7. When do you test OO development for reuse?
8. How does one verify development for reuse?
9. What is reuse engineering?
10. Why box structure algorithms necessary?

PART B — (5 × 16 = 80 marks)

11. (a) (i) State some motivations for reuse. (6)  
(ii) List the benefits of reuse. (5)  
(iii) Define the hierarchy of reuse. (5)

Or

- (b) (i) Illustrate the roles of reuse projects. (6)  
(ii) Why does one reuse projects? (5)  
(iii) What are the characteristics of reuse projects? (5)
12. (a) (i) Describe the architecture of REBOOT component model. (10)  
(ii) How does one manage the repository? (6)

Or

- (b) (i) What are product metrics? Explain. (10)  
(ii) Explain how to form a reuse strategy. (6)
13. (a) (i) What constitutes reusability? (6)  
(ii) How do you develop for reuse? (6)  
(iii) How do you test a reusable component? (4)

Or

- (b) (i) How do you develop with reuse? (6)  
(ii) State and explain the different types of OO components. (4)  
(iii) Describe the structure of OO life-cycle. (6)

14. (a) (i) Explain the specific aspects of with reuse development. (8)  
(ii) Describe the specific activities of development with reuse. (8)

Or

- (b) (i) Discuss the impact of reuse on development life-cycles. (8)  
(ii) Explain the different phases of development with reuse. (8)
15. (a) (i) How does one retrieve objects in non-object-oriented cor... (8)  
(ii) Describe the methodology for re-engineering process (8)

Or

- (b) (i) How does one adopt the box structures in clean room method? (8)  
(ii) Why is clean room software engineering needed? (4)  
(iii) Why is certification phase for clean room method necessary? (4)