

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2125)

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B. Tech 8th Semester Examination
Software Maintenance (OS)

IT-8016

Time : 3 Hours

Max. Marks : 100

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

Note : Attempt one question from each section A, B, C & D.
Section E is compulsory.

SECTION - A

1. What is software maintenance and justify its need? Describe the relationship between product and environment with respect to software maintenance frame work. (20)
2. (a) Discuss in detail the problems of code and fix model? (10)
(b) Differentiate between new development and maintenance in software? (10)

SECTION - B

3. Describe generation based approach for reuse. Also state how this approach is different than composition based reuse? (20)
4. (a) What are maintenance measures? What is the objective of software maintenance? (10)
(b) Describe the advantages and disadvantages of reengineering? (10)

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SECTION - C

5. What do you mean by configuration of software system? Discuss the processes & activities in configuration management to support the maintenance? (20)
6. Describe different types and functions of documentation with suitable examples. (20)

SECTION - D

7. What are various types of maintenance tools? Explain in detail. (20)
8. Write a brief note on weakness of fourth generation languages. (20)

SECTION - E

9. (i) What is preventive change?
(ii) What is programme understanding?
(iii) List the responsibilities of temporary maintenance team?
(iv) List the features of software product?
(v) What are the aims of structured testing? (4×5=20)