15268

B. Tech 7th Semester Examination

Software Maintenance (OS)

IT-7010

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 five questions in all, selecting one question from each section A, B, C and D. Section-E is compulsory.

SECTION - A

1. Explain comprehension process models by exploring program comprehension strategies?   (20)

2. Discuss the issues that can contribute to high maintenance cost and how would you minimize their cost?   (20)

SECTION - B

3. Explain the benefits and goals of employing reusable software components during software maintenance and also discuss the technical issues underpinning software reuse.   (20)

4. What are the purpose and objectives of reverse Engineering? Explain supporting techniques and benefits?   (20)

SECTION - C

5. Define configuration management and explain all the activities that are performed under it?   (20)

[P.T.O.]

6. What is the need of education & training for software maintenance? Explain different education & training strategies with their benefits & drawbacks?   (20)

SECTION - D

7. Write short note on the following:-

   (i)   Quality assurance.

   (ii)   Fourth generation languages.   (2×10=20)

8. What is the criteria that can be used as guidelines to choosing tools? Explain some tools which support testing.   (20)

SECTION - E

9. (a)   Comprehension's implications.

   (b)   Management Responsibilities.

   (c)   Explain the concept of design recovery?

   (d)   Describe the benefits of personnel education?

   (e)   Explain past, present & future of software maintenance?
                                                      (5×4=20)