

7. (a) What is an Absolute loader ? Explain its role, advantages and disadvantages. (10)
- (b) Write a Macro that takes A, B, C and D as parameters and calculate A and B * C and D in the accumulator. Where would you store the temporary result ? (10)

8. Write short note on following :
- (a) Function over-loading (7)
- (b) Dynamic linking (7)
- (c) Collaboration diagram (6)

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23066

**M.Tech. 1st Semester
(Computer Engg.) Examination-
December, 2016**

COMPUTER SYSTEM SOFTWARE

Paper : MTCE-601-A

Time : 3 hours

Max. Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt any **five** questions.

1. (a) What do you understand by Object Oriented Design ? Explain various advantages and applications of Object Oriented Design. (10)

- (b) Explain why is used for Object Oriented Programming with suitable examples. (10)
2. (a) What is a class plate ? How is it used in OOP ? Explain with example. (10)
- (b) What is meant by containmentship ? How is it different from inheritance ? Explain with the help of program. (10)
3. (a) Differentiate between the terms aggregation and association with example. (10)
- (b) What do you mean by Nested. State the generalization ? Explain with example. (10)

4. (a) What do you understand by Use-Case ? Design and illustrate the Use-Cases for activities done in the college library. (10)
- (b) Write short notes on :
- (i) Deployment diagrams (5)
- (ii) Collaboration diagrams (5)
5. (a) Discuss the Liskov's substitution principle along with its advantages. (10)
- (b) Write short note on Open-close principle. (10)
6. (a) Define Linkers. Explain the various data structures used by Linkers. (10)
- (b) Draw and explain the flow-chart of Pass-I of Assembler. (10)