

Manipal Institute of Technology
Department of Computer Science and Engineering
Second M.Tech. [CSE]
Assignment -3 [Improvement]
Advanced System software-CSE 5251

Time: 30 Minutes

Marks: 05 M

Note:

-Answer the following questions

-The time given for answering the questions is 30 Minutes, and the additional 60 Minutes is provided for hassle-free submission[Photocopy]

-Students must write the answers in their own handwriting on a white sheet of paper.

-The details to be mandatorily written on the answer sheet are: Name, Semester, Section, Roll Number, Registration Number, Course name, Signature with date.

-On completion of answering the assignment, students need to scan/image (using device of your choice) all the answer sheet/s in sequence and save it with file name of their registration number in PDF/ Image format.

-Upload the above pdf/image file containing the answers to MS Teams Assignment platform within the given schedule.

-CLICK ON "ADD WORK" OPTION, ATTACH THE PDF/IMAGE AND THEN CLICK ON "TURN IN".

-Student to contact faculty member concerned through mail/phone in case of any difficulty faced by them during the assessment process.

Q-a) Differentiate between synthesized attribute and inherited attribute with the examples. Construct the DAG for the expression $a+a+(a+a+a+(a+a+a+a))$ and also write steps for constructing the DAG. 2M

b) Translate the expression $a[i] = b*c - b*c$ into Quadruples, Triples, and Indirect Triples. Generate code for the statements $x = b*c$, $y=a+x$, assuming all ariables are stored in memory locations. 2M

c) Explain what is meant by (distribution) transparency, and give examples of different types of transparency. 1M