

	VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE [Central Technological Institute, Maharashtra State] Matunga, Mumbai-400 019			
SEMESTER EXAMINATION		MST Examination-Feb 2021	DATE :	Tuesday 23/02/2021
SEMESTER & PROGRAM		Sem-VI T.Y. B.Tech (Computer Engg)	TIME	12:00 PM to 1:00 PM
TIME ALLOWED		1 .00 Hr.	MARKS	20
COURSE (Course Code)		Software Engineering II (R4CO3011T)		
Instructions 1. Solve ALL question 2. All questions carry equal marks. 3. Figures to the right indicate full marks. 4. Answer to sub question should be answered one below the other. 5. Forward Handwritten Answer Sheet in pdf format to classroom of software engineering II.				
Que. 1	The Mumbai University Result Management Systems : The Mumbai University offers several engineering collages with different programs(branches) for the students..In the university result management systems, the students has to appear for practical examination(100 Marks) and theory examination(100 Marks). The theory examination is the continuous assessment based on Test One(10 Marks), Test Two(10Marks), Middle Semester Exam(MST)-(20 Marks) and End Semester Examination(ESE)-60 Marks and the results of the students are declared on the basis of practical examination and theory examination. For this case study , answer the following questions. (i)Construct the class diagram for the University Result management systems; clearly specify all attributes and methods with access specifiers and constraints. OR (ii)Give data and process model design for Mumbai University Result Management Systems using C++ or JAVA.			10
Que. 2	Online Bharatratna Dr. Babasaheb Ambedkar Library, VJTI Management System involves login and registration interface for online searching book, issuing book, and returning book. User can login to the system and view or get book details. The System allows to search the book on the basis of Author name, Book ID, Book Name. Users of the System are Students and Staff. Librarian acts as Administrator and he manages and has control over the System. Privileges regarding Issue book, renew book, view book status, update book status are allowed to Librarian. Users are allowed with the privileges as searching book, and viewing book status. System assigns User ID to the User, and if new book added to the Repository then the book is assigned book ID. If book is available in the Library and Number of books issued to the User does not cross the Maximum limit then it is issued to the requesting User. On returning the book by the user, system checks the due date of the book. If due date is crossed then fine is calculated by the System and user pays fine to the Librarian. . For this case study , answer the following questions. (i) Construct use case diagram. Give your opinion about primary actors and secondary actors involved in the case study. (04 Marks) (ii) Write the textual use case template(pseudo code) for use case- “issue book” (03 Marks) (ii) Construct state transition diagram for the dynamic class-user. (03 Marks)			10

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