

ACAD-27 a)	Shri Ramdeobaba College of Engineering and Management, Nagpur -440013	Iss. No.: 01, Rev. No.: 00
Ref. Clause(s): 9.1		Date of Rev: 01/01/2018
Department: Computer Application	Semester : I Shift: I and II Course Code: MCT541 Course Name: OBJECT ORIENTED PROGRAMMING	Page: 01/01
Programme: MCA	<u>Test : 2</u>	Date of Exam: 13/05/2021
Max Marks: 15	Session: 2020-21 (Winter-2020)	Time: 1 Hour

Instructions:

1. All questions are compulsory.
2. Assume suitable data wherever necessary.

Q. No.	Question	Marks	COs Mapped	EO
Q. 1	Consider a scenario that the user entered two values Cur_Reading and Old_Reading for Electric bill calculation, where the Cur_Reading should be greater than or equal to the Old_Reading. If the user entered wrong values, that may give wrong calculation. You have to implement Java exception handling mechanism and design a code that shows exception warning “ Please enter proper readings ” for the exception “ OR_GT_CR ” through the exception class available, “ Electric_Exceptions ” and it should print a message “ Save Electric, Save Nation ” at the end of the code.	04	CO2	L5, L6
Q. 2	Discuss the lifecycle and states of threads in Java using proper diagram.	04	CO2	L2
Q. 3	Differentiate between Java Servlet and JSP .	03	CO3	L4
Q. 4	Develop a Java program to read book information (BOOKCODE, BNAME, AUTHOR, PRICE, STATUS='R' default) from the table BOOKS and student information (STUDID, NAME, CLASS and BOOKCODE) from the STUDENT table. Get STUDID and BOOKCODE from the user and store transaction information (DOI, STUDID, BOOKCODE) to the table ISSUE . Update BOOKS table by STATUS='I' if STATUS='R' and BOOKCODE of the STUDENT table. Use the database name COLLEGE for this program.	04	CO3	L6