

No. of Printed Pages : 03

Roll No.

18G9

B.Tech. EXAMINATION, 2022

(Seventh Semester)

(C Scheme) (Main & Re-appear)

(CSE)

CSE423C

GREEN COMPUTING

Time : 3 Hours]

[Maximum Marks : 75

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

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. Each question carries equal marks.

Unit I

1. Write and briefly describe any *five* objectives of Green Computing. 15
2. How Industry can contribute in Green Computing ? Discuss the any three approaches followed in industry to achieve the objectives of green computing. 15

Unit II

3. Elaborate the strategy you would follow to incorporate the green computing principles in a High performance computing environment. 15
4. What do you mean by server consolidation ? Write any *five* advantages of server consolidation. 15

Unit III

5. List and elaborate the different ways to optimize the airflow around server and networking equipments ? 15

6. (a) How can you minimize excessive power output from wireless devices ? 8
(b) Which features of an operating system can be used to minimize the carbon footprint of a computing machine ? 15

Unit IV

7. What do you mean by a green Mobile ? List and explain any *three* best practices for minimizing the battery consumption in a mobile device. 15
8. Write and explain *three* different types of web mining activities. 15