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MASTER OF COMPUTER APPLICATIONS
EXAMINATION: JUNE - 2025
SEMESTER - I

Sub : Green Computing (MCA24-102)

Date : 11/06/2025

Total Marks : 60

Time: 10.00 am To 12.30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. What are the primary goals of green computing?
2. What are some benefits of green computing.
3. What is green computing?
4. How can energy-efficient hardware help?
5. What role does AI play in green computing?
6. How can IoT support green computing?
7. What are sustainable tech materials?

Q. 2. Answer the following in short. (Any 4) (20)

1. How can companies design eco-friendly packaging for electronics?
2. How can individuals adopt green computing practices?
3. What is the role of open-source software in green computing?
4. What are the main challenges in implementing green computing?
5. How does green computing impact environmental sustainability?
6. What is the role of recycling in green computing?

Q. 3. Answer the following in detail. (Any 3) (30)

1. Explain carbon footprint. Describe the relation between carbon emission and green computing.
2. Describe the Challenge of Next-Generation Networks.
3. Explain green IT 1.0 and 2.0 in detail.
4. What are the five stages of device life cycle? Explain.
5. How can green computing be implemented in small and medium-sized enterprises? Describe in detail
