Batch-2024-2026

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MASTER OF SCIENCE (M.Sc) IN COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2025
SEMESTER – I
Sub : Green Computing (MSC24 -102)

Date : 26/12/2025 **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 sustainable tech materials?
2. What is green computing?
3. What role does IoT (Internet of Things) play in green computing?
4. Enlist the goals of green computing?
5. What are the benefits of green computing?
6. How can energy-efficient hardware help?
7. What role does AI play in green computing?

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

1. What are the main challenges in implementing green computing?
2. Explain sustainable development.
3. Define green IT and state is advantages.
4. What is the role of open-source software in green computing?
5. How can individuals adopt green computing practices?
6. Describe solid-state drive.

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

1. Explain green IT 1.0 and 2.0 in detail.
2. What are the five stages of device life cycle? Explain.
3. Explain carbon footprint. Describe the relation between carbon emission and green computing.
4. Explain green devices.
5. What is the role of recycling in green computing?