

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF COMPUTER APPLICATIONS**  
**EXAMINATION: DECEMBER - 2024**  
**SEMESTER - I**

**Sub : Green Computing (MCA24-102)**

**Date : 26/12/2024**

**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. Define server.
2. What is energy-efficient computing?
3. Enlist the goals of green computing?
4. What is the impact of virtual meetings on green computing?
5. What are the benefits of green computing?
6. What are the challenges while implementing green computing?
7. What role does IoT (Internet of Things) play in green computing?

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

1. Explain sustainable development.
2. Describe solid-state drive.
3. What are the five stages of device life cycle. Explain.
4. Define green IT and state its advantages.
5. Explain desktop computer.
6. How does cloud computing relate to green computing?

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

1. Describe the challenge of Next-Generation Networks.
2. Explain green devices.
3. How can green computing be implemented in small and medium-sized enterprises? Describe in detail.
4. Explain green IT 1.0 and 2.0 in detail.
5. Explain carbon footprint. Describe the relation between carbon emission and green computing.

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