

**University of Mumbai**  
**Examinations Summer 2022**  
**T.E (Information Technology) (Sem –VI) (CBCGS)(R19)'C' Scheme**  
**Course Code: ITDO6013 GREENIT**  
**Subject code: 89387**

Time: 2 hour 30 minutes

Max. Marks: 80

| Q1.       | Choose the correct option for following questions. All the Questions are compulsory and carry equal marks              |
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| 1.        | The three R's of Green IT are useful for .....   |
| Option A: | Greening Unwanted hardware   |
| Option B: | GHG emission   |
| Option C: | Green standards and metrics  |
| Option D: | Making business operations.  |
| 2.        | In processor power states what is meant by C- state  |
| Option A: | Co-processor energy state  |
| Option B: | Cool state   |
| Option C: | CPU power state  |
| Option D: | Core power state   |
| 3.        | The two metrics DCiE & PUE are used to calculate which of following efficiency   |
| Option A: | Data efficiency  |
| Option B: | Infrastructure efficiency  |
| Option C: | Idle efficiency  |
| Option D: | None of the above.   |
| 4.        | Which of the following is not software energy efficiency technique.  |
| Option A: | Computational efficiency   |
| Option B: | Data efficiency  |
| Option C: | Context Awareness  |
| Option D: | Energy Checker   |
| 5.        | The New Energy star 4 standard is defined to -----.  |
| Option A: | Regulate Energy performance of power supply  |
| Option B: | Restrict use of carbon hazardous material  |
| Option C: | Design green hardware  |
| Option D: | Disposal of E-waste  |
| 6.        | what are the two characteristics of risks  |
| Option A: | Plan and analysis  |
| Option B: | Track and plan   |
| Option C: | uncertainty and loss   |
| Option D: | loss and plan  |
| 7.        | what describes a distribution model in which applications are hosted by a service provider and made available to users |
| Option A: | Infrastructure-as-a-Service (IaaS)   |
| Option B: | Platform-as-a-Service (PaaS)   |
| Option C: | Software-as-a-Service (SaaS)   |

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| Option D: | Cloud service  |
| 8.        | The substances banned under RoHS are   |
| Option A: | lead   |
| Option B: | Stainless steel  |
| Option C: | calcium  |
| Option D: | Alloy  |
| 9.        | Which of the following Primary greenhouse gas is responsible for increase in global temperature? |
| Option A: | Carbon dioxide   |
| Option B: | Methane  |
| Option C: | Nitrogen dioxide   |
| Option D: | Hydrogen   |
| 10.       | Which generation of Green IT is responsible for empowerment the range of green initiative?       |
| Option A: | Green IT 1.0   |
| Option B: | Green IT 2.0   |
| Option C: | Green IT 2.1   |
| Option D: | Green IT 3.0   |

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| <b>Q2<br/>(20 Marks Each)</b> | <b>Solve any Two Questions out of Three</b>                                  | <b>10 marks each</b> |
| A                             | Describe the key facilities and IT components within data centres            |                      |
| B                             | What is sustainable software? Explain attributes of software sustainability. |                      |
| C                             | Explain the business dimensions for Green IT transformation                  |                      |

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| <b>Q3<br/>(20 Marks Each)</b> | <b>Solve any Two Questions out of Three</b>                  | <b>10 marks each</b> |
| A                             | Describe the strengths and weakness of G readiness framework |                      |
| B                             | Explain SITS value curve in SITS strategic framework.        |                      |
| C                             | Explain life cycle of a device or hardware in details        |                      |

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| <b>Q4<br/>(20 Marks Each)</b> | <b>Solve any Two Questions out of Three</b>   | <b>10 marks each</b> |
| A                             | Distinguish between Green and Sustainable. What is green washing? Do you think companies engage in it |                      |
| B                             | Write short notes on 1)WEEE 2)RoHS 3)REACH directives.  |                      |
| C                             | What are the different power states of a hard disk  |                      |

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