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CS8078 GREEN COMPUTING

IMPORTANT QUESTIONS AND QUESTION BANK

UNIT-I FUNDAMENTALS

2-Marks

1. Define Green computing.
2. What are the 3Rs of Green IT?
3. Distinguish between EI and BI.
4. What are the major factors that contribute to carbon emission in an organization?
5. Point out the specific ways in which a comprehensive Green IT strategy is benefits an organization.
6. Give the major IT Area Influencing Environment.
7. What is ERBS?
8. List four encompassing layers of a comprehensive Green IT vision of an enterprise.
9. Define green sustainable policy.
10. Define carbon foot print.
11. Classify the challenges of carbon Economy.
12. Define the impact of BI to EI.
13. Give the element of an ERBS forming the green strategies mix.
14. What are the steps in developing an ERBS?
15. Evaluate about Lean Impact on Green.

13-Marks

1. Explain the Diagram Information technology influence business, society, and environment.
2. Give the challenges of carbon economy.
3. Explain interplay of business and environment through information technology.
4. 1.Examine the Green Enterprise Characteristics
   2.Classify the impact of Business to Environmental Intelligence.
5. 1.explain Green IT Drivers?
   2.Identify the impact of Business to Environmental Intelligence.
6. What are Environmental factors influencing organization's business strategies over next 3-5 years.
7. Summarize the impact of green IT policies in three ways (length, breadth, depth).
8. 1.Illustrate Economy, people, processes, and technology dimensions in an ERBS.

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9. Generalize the concepts of steps developing an ERBS.
10. List the various green policies that are implemented through practices, and proved through metrices.
11. Explain coverage of carbon metrics.
12. Summarize KPIs in Green strategies.
13. Give the two steps to find actors and goals.
14. Explain what are the four dimension a long which an organization can be transform to a green organization.
15. Describe and discuss the importance of consortiums in an 8+year Green IT strategy.

UNIT-II GREEN ASSETS AND MODELING

2-Marks

1. Define Green Assets.
2. Illustrate the type of assets.
3. "The role of green mobile"-Justify.
4. Discover what is Green Data Centers.
5. Define Carbon Emitting Bit.
6. Analyze the factors influencing green data center.
7. Generalize your view on tools used for measuring carbon emissions.
8. Summarize the list of green process categories.
9. Analyze the concepts green business process management.
10. Interpret the factors pf Green BGM.
11. Distinguish between coupling and cohesion.
12. When to use patterns?
13. Analyze green enterprise architecture.
14. Define enterprise architecture (EA).
15. Discuss the benefits VPN.

13-Marks

1. What are the major activities relating to the infrastructure assets that has the following carbon repercussions?
2. Explain the types of Assets (Categories) and their Impact on the Environment.
3. 1. Explain the green data centers influencing factors.
   2. explain in detail A carbon-emitting bit.
4. Demonstrate policies and practice of green P-O-D in the context of Devices and peripherals.
5. Generalize your idea on green business process management.
6. Explain in detail how can cloud computing help reduce carbon emission?
7. 1.Give Green process categories and their carbon impact.
   2.discuss the individual, organizational, and collaborative green processes.

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8. What is Green BPM? Discuss the role green BPM plays in the reduction of an organizational carbon footprint.
9. Discuss in detail about various views of a comprehensive green enterprise architecture: mapping design.
10. Examine the environmental intelligence.
11. Examine in detail about Deployment diagram for GIS.
12. Describe the concepts component diagram for GIS.
13. Explain the elements of a green ICT information porta.
14. Analyze the supplier Contract conditions in the context of Environmental Intelligence.
15. Analyze the sequence diagram (dynamic model) for "emissions check".

UNIT-III GREEN FRAMEWORK

2-Marks

1. Define virtualization?
2. List out the types of virtualizations.
3. Express benefits of telecommuting offered to individuals and businesses.
4. Define telecommuting.
5. Express three tips to go Green with your PC.
6. Illustrate the some of the big challenges you're likely to encounter as you begin to telecommute
7. Define Environmental Product Environmental Assessment.
8. List out the three biggest energy hogs in your computer system.
9. Compare virtualization techniques.
10. Illustrate the formula for data center infrastructure efficiency (DCIE)
11. Give the advantage of using green PC.
12. Comparison between server virtualization and application virtualization.
13. Analyze the benefits of green data center.
14. Define green grid.
15. When to use material recycling?

13-Marks

1. Describe storage virtualization
2. Describe the concepts Client virtualization.
3. What is virtualization? Explain Server virtualization in detail?
4. Describe how to Assess the greenness of your data center.
5. 1.Writedown the tips to start moving your data center towards green.
   2.Describe how will you optimize your data center cooling.
6. Design and explain the green home office -Telecomm central.
7. 1. Analyze the concepts of managing the challenges of telecommuting
   2.Explain Establishing expectations in telecommuting.

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8. 1.Explain in detail about Understanding how you use device for green PC.
    2.Explain in detail about Developing computer habits that save energy for green PC.
9. 1.Illustrate about "Using your monitor with efficiency in mind" in green PC.
    2.illustrate about "Spotting an energy hog" to make Green PC.
10. 1.Dscuss about how energy is used in a data center.
    2.Discuss the Environment laws and the company image in data center.
11. Discuss about data center and its uses.
12. Illustrate about green grid frame work.
13. 1.Describe in detail about the telecommuting.
    2.describe briefly about teleconferencing.
14. Differentiate the types of virtualization techniques.
15. 1.Analyze the role of electric utilities.
    2. Analyze about green PC.

UNIT-IV GREEN COMPLIANCE

2-Marks

1. Define green IT's social impact.
2. Define evolving green HR.
3. Illustrate the role-based view of green it.
4. Compare green. IT's social Impact and green social stakeholders
5. List out the three main categories of green-collar workers.
6. Show the green point method.
7. Differentiate the strengths and weaknesses of GET processes.
8. Interpret the issues related to a pilot project.
9. Define the green requirements of the business.
10. Define Copenhagen.
11. Design the notation of verified and validated in a green audit.
12. Describe the specify advantages in undertaking Green IT audits.
13. Classify the ways in which they can be applied to green audits
14. Analyze the potential for reducing the overall carbon emissions.
15. List the future of Green IT in the four Dimensions.

13-Marks

1. Compare views of various cross-section of society of society on environmental initiatives and role-based view of green it.
2. Explain the concepts of relative speed of change in green enterprise transformation.
3. 1.What is green IT influencing working lifestyle
    2.Create green user practices that have social impact.

4. Illustrate the subjectivity in green it arises from differencing priorities of the same individual.

5. Describe the diagram and shorts notes on Green Enterprise Transformation.

6. 1.With short notes on A Green ICT framework.
   2. describe the applying the four dimension to GET.

7. Explain about with detail on enterprise and data centers an example.

8. Describe the detail with example of green Transformation process

9. 1.With an example describe notation used in green IT projects roles.
   2.Short notes on responsibility on GTC, business Architect and variations and Business Architect and variations.

10. Differentiate the relationship between diagnosing equipment lifecycle's carbon efficiencies and diagnosing end-user computing's carbon efficiencies an example.

11. Describe the planning end-user Green IT transformation.

12. Discuss about enterprises IT Data centers efficiencies with suitable example.

13. Hoe to draw Green ICT-Business and economic trends?

14. Developed economies and developing economies (BRIC) comparison along four dimensions.

15. Illustrate about personalization of the green context by end-users leads to change in attitude.

UNIT-V CASE STUDY

2-Marks

1. Define business strategy.

2. List out the understanding current business scenario in your organization.

3. Give the ICT practices have been adopted by your organization.

4. Describe the term defined by your organization to adopt green policies

5. Define the term compliance audits.

6. List of the noteworthy finding from the preliminary Green IT audit.

7. Give the result of the initial green IT audit undertaken by the bank

8. Define carbon footprint.

9. Illustrate the overall approach to GET for good mead hospital.

10. List out the Important objectives of good mead in undertaking the GET

11. Analyze as to SWOT analysis of good mead hospital.

12. Illustrate the practices regarding energy saving data centers

13. What are the steps in developing a hospital's ERBS? Illustrate it.

14. Generalize the concepts of GET for Au Pack packaging.

15. Give the strategic approach by the CGO.

<u>13-Marks</u>

1. Explain the strategic measures for reducing Emissions and demographic information for research project survey.
2. Describe the respondent demographics.
3. Explain the business and strategy planning with respect to the environment and technical strategy and planning.
4. Describe the different types of the result of the initial green IT.
5. 1.list the guidelines fir case study Scenarios for trial runs

   2.Explain in detail on environmentally responsible business strategies (ERBS) Research project survey.
6. Illustrate the concepts of blue waters travel agency carbon scenario and open-air airline carbon scenario.
7. Sketch the guidelines for preliminary green investigation and green business objectives.
8. what are the steps involved to SWOT of good mead hospital? Illustrate it.
9. 1. Design the strategic Concerns of management?

   2.list out the steps are steps in developing a hospital's ERBS?
10. Describe the following:

    1.Green transformational Elements.

    2.The green transformational project.
11. Generalize the concept for Green Transformational project and technology changes in hospital.
12. Why Au pack strategic approach and diagnosis in Au pack?
13. Summarize the applying mobile technologies in GET.
14. 1.point out the features of technical Dimension in Au pack.

    2.Explain about the enacting GET for zee Tel.
15. Analyze the GET project for zee Tel and the green transformation project.