

**Green Technologies Question Bank**

1. What is most commonly used for managing the resources for every virtual system?  
Load balancer  
Cloud  
Router  
Hypervisor
  
2. VAN stands for  
Value Added Network  
Van Area Network  
Various Area Network  
Voluntary Area Network
  
3. The EPA's product rating system that assesses the environmental impact of consumer and commercial products is called:  
Energy Star  
Energy Check  
Energy Point  
Energy Score
  
4. Which set of standards addresses environmental management systems?  
ISO 26000  
ISO 9000  
ISO 14000  
ISO 31000
  
5. \_\_\_\_\_ is a system that employs hundreds or thousands of hard drives for near-line storage.  
RAID  
MAID  
SAID  
Green Hard Drive
  
6. RoHS stands for  
Resting of hazardous substance  
Restriction of hazardous substance  
Restriction of hazard of substance  
Resting of happening substance
  
7. Steps to measure carbon footprinting does not include  
Do not Report the result to stakeholders  
Baseline should be set  
Define what all things contribute to carbon footprint  
Track and analyze carbon footprint of organization
  
8. Sun Microsystem operates its own telecommuting program called \_\_\_\_\_

iWork  
Internet  
Infosys  
windows

9. \_\_\_\_\_ is charitable non-governmental organization which focuses on reducing the export of hazardous waste from development countries to developing countries.

Basel Action Network  
Byte Back program

RoHS

StEP(Solving e-waste problem )

10. \_\_\_\_\_ is a measure of amount of energy consumed per square feet of floor space.

storage density

SWaP

Data Center Density

storage utilization

11. The requirements for sell back power to utility companies are

A meter

Photovoltaic panels

An inverter

All of these

12. How can an organizations reengineering process be more environment ready ?

Making a plan

None of these

Knowing your need

Both of these

13. Indirect emission are the emissions that are generated by the activities of the company but the sources can be owned by outsider.

No.

Maybe

May not be

Yes

14. A system that employs hundreds or thousands of hard drives for near line data storage are called

RAID

EPEAT

StEP

MAID

15. Direct emission are the emissions from the sources owned by the company

May not be

Maybe

No

Yes

6. Point out the correct statement.

A cloud has multiple application instances and directs requests to an instance based on conditions

A client can request access to a cloud service from any location

All of the mentioned

Computers can be partitioned into a set of virtual machines with each machine being assigned a workload

17. It is an array of servers that are managed by a virtual storage system.

Application virtualization

Storage virtualization

Desktop virtualization

Network virtualization

18. BAN runs this campaign

Crime

Basel Ban Ratification

None of these

Watch the dog

19. It helps a user to have remote access to an application from a server.

Desktop virtualization

Network virtualization

Application virtualization

Storage virtualization

20. A \_\_\_\_\_ is a private Internet operating within organization.

Arpanet

WIFI

blue tooth

Intranet.

21. Recycling reduces

all of the above

air pollution

energy usage

water pollution

22. The sale of electronics containing which material is NOT prohibited by the RoHS directive?

Tungsten

Mercury

Hexavalent chromium

Lead

23. Cooling needs are calculate using

Window

Equipment

All of these

Lighting

24. Buildings employing \_\_\_\_\_ solar techniques have walls, floors, ceilings, and more that are designed to gather and disperse solar heat to both air and water.

passive

static

reactive

active

25. \_\_\_\_\_ allows exchange of business documents in a standardized electronic format between business partners.

Electronic Data Interchange ( EDI)

Google

WhatsApp

Internet Explorer

26. To maintain the datacenter at the right level

Lockout Economizer whenever necessary

Both of these

Establish a humidity sensor calibration schedule

None of these

27. Cooling needs are calculate using

Window

Room size

People in the room

All of these

28. Component that is require to build an intranet is?

LAN

Web server

All of these

Web page developer software

29. The Policy & Legislation of StEP program deals with reporting and analysing the status of existing techniques and policies for managing e-waste

No

May not be

Maybe

Yes

30. StEP Task Forces does not include

ReDesign

Policy Legislation

ReCycle

ReSearch

31. How many types of economizers are there

2

1

3

4

32. \_\_\_\_\_ evaluates electronic products according to three tiers of environmental performance : bronze , silver, and gold.

EEAT

EPEAT

WEE

WEEE

33. EPEAT does not address which criteria?

Packaging attributes

Manufacturing

Corporate performance

Management of end of life products

34. What is the hazardous pollutant released from telephones?

Lithium

Copper

Barium

Lead

5. Power Usage Effectiveness is calculated by:

Dividing energy used for the IT department by energy used for the entire organization

Multiplying energy used per hour by number of operating hours per year for the IT department

Dividing energy needed to power IT equipment by total number of servers

Dividing energy used to maintain IT facilities by energy needed to power IT equipment

36. What is the iron and steel constitute of e-waste?

20

30

40

50

37. Which toxic compound is not found in e-waste?

Mercury

Cadmium

Neon

Lead

8. Which of the hazardous pollutant occurs in plastic?

Lithium

Lead

PCBs

Copper

9. Which is not a benefit of virtualization?

Flexible and efficient allocation of resources

Lowers the cost of IT infrastructure

Run on single operating system

Remote access and rapid scalability

10. Through consolidation and \_\_\_\_\_ one can reduce machines in a organization

Socialization

Virtualization

Materialization

Personalization

1. In an organization where the media is played from a CD,DV or hard drive the application buffers are set large enough to store as much of the media in memory as possible

Doing this crashes the computers

Doing this reduces power

Doing this increases power

Doing this crashes the server

2. Adopting green IT cannot save huge amount of organizations money on hardware and power as compared to current practices.

No

Maybe

Yes

May not be

3. Which of the following element make e-waste hazardous in nature?

Iron

Glass

Plastic

Lead

4. StEP stand for

Solving the E-Waste Problem

Solving the Electronic Problem

Send time E-Waste Planning

Standard time Environment Planning

5. How can an organizations reengineering process be more environment eady ?

Both of these

Not knowing the needs

Not making a plan

None of these

. What is the hazardous pollutant released from calculators?

Copper

Lithium

Mercury

Lead

. Installing software on a centralized server and sending it to users as needed is called:

Application migration

Application streaming

Application sending

Application swapping

48. MAID stands for

Mass Array of Idle Disks

Massive Array of Idle Disks

Massive Active Indian Disks

Massive Action Idle Disks

49. Which materials can be extracted from alkaline batteries and used in the creation of new ones?

Steel and cadmium

Steel and zinc

Lead and lye

Lithium and carbon

50. The most valuable part of a PC or TV is the copper in the cathode yoke

circuit boards that contain silver and gold

lead in the CRT

none of the above

51. \_\_\_\_\_ is achieved using specialized software which creates partitions of a server into smaller virtual servers to maximize server resources.

communication

Transmission  
Socialization  
Virtualization

52. What is the hazardous pollutant released from circuit boards?

Barium  
Arsenic  
Copper  
Lead

53. \_\_\_\_\_ is a server chassis housing multiple thin , modular electronic circuit board that are dedicate to a single application

Storage Servers  
Cloud servers  
Application Servers  
Blade Servers

54. The panels that absorb solar radiation made of silicon an coated with tampered glass and mounted on the roof of a free standing pole shows

Low power computer  
Net metering  
Sell back panels  
Inverter

55. \_\_\_\_\_ is one of the fastest growing components of waste stream in the world.

e-waste  
e-learning  
e-shopping  
use of internet

56. What does PDA stands

Personal Digital Assistant  
Personal Digit Assist  
Personal Digit Assistant  
Personal Digital Assist

57. EPEAT stands for \_\_\_\_\_

Electronic Purchase Environmental Assessment Tool  
Ecommerce Product Environmental Assessment Tool  
Electronic Product Environmental Assessment Tool  
Electric Product Environmental Assessment Tool

58. Recirculation of equipment exhaust can be prevented using

On demand cooling  
Rigid enclosures

Vapor seal

Cable management

59. which of the following is not component of Intranet

WAN

Web Browser

LAN

Web server

60. By stripping away many components of traditional servers and collectively relying on additional functions of the enclosure that houses them, \_\_\_\_\_ servers are able to consume significantly less power while completing the same processes.

blade

reflective

converged

ensured

The sale of electronics containing which material is NOT prohibited by theRoHS directive?

a) Tungsten

b) Mercury

c) Hexavalent chromium

d) Lead

Which one of the following options is incorrect for Green technology?

the use of technology that makes products and processes more environmentally friendly

to develop methods of low power consumption

to reduce the consumption of non-renewable resources of energy

to use all the green options on the planet

\_\_\_\_\_ refers to the network's ability to quantify energy cost per packet, and identify if power constraints are becoming a limiting force on its ability to operate or if carbon emissions are increasing above a threshold.

a) Energy Awareness

b) Energy Efficiency

c) None of the above

d) Security

Energy costs now account for nearly \_\_\_\_\_ of a data centre's operating costs.

a. 50%

b. 10%

c. 20%

d. 30%

Which one of the following cause global warming?

a. Carbon dioxide

- b. Oxygen
- c. Nitrogen
- d. Hydrogen

With minor exception, which of the following have been phased out completely globally?

- a. Carbon dioxide
- b. Carbon monoxide
- c. Chlorofluorocarbons
- d. Nitrogen dioxide

We can \_\_\_\_\_ and upgrade old computers and servers to meet our new requirements.

- a. recycle
- b. refurbish
- c. reuse
- d. replace

An \_\_\_\_\_ Report suggests that about 96% of CEOs are in favour of integrating sustainability issues with organizational strategies

- a. IGate
- b. Wipro
- c. Accenture
- d. Infosys

In \_\_\_\_\_, data are migrated between different storage tiers based on data access patterns.

- a) HSM
- b) tiered storage
- c) both a and b
- d) none

Which toxic compound is not found in e-waste?

- a) Mercury
- b) Cadmium
- c) Arsenic
- d) Lead

Holistic Approach to Greening IT include

- a. Green design
- b. Green manufacturing
- c. Green use
- d. All of the mentioned

\_\_\_\_\_ often refers to warming that can occur due to increased GHG emissions from human activities which trap heat that would otherwise escape from Earth.

- a. Green IT
- b. Global Warming
- c. Green Washing
- d. GHG

Which is not a benefit of virtualization?

- a) Flexible and efficient allocation of resources

- b) Lowers the cost of IT infrastructure
- c) Run on single operating system
- d) Remote access and rapid scalability

Who defines alarms and measurements to control operation of power systems?

- a) EFT
- b) ETSI
- c) EMAN
- d) WEEE

With respect to the World Environmental Center which one of the following option is correct?

- a. It is a non-profit and advocacy organization
- b. It is a profit and advocacy organization
- c. It is a non-profit and non-advocacy organization
- d. It is a profit and non-advocacy organization

Who is actively involved in reducing the power required to operate Ethernet technology?

- a) EFT
- b) IEEE
- c) WEEE
- d) ETSI

Mandatory bits associated with Transmission Control Protocol (TCP) packets include:

- a) Data Offset (4 bits),
- b) Reserved (6 bits),
- c) Control (6 bits),
- d) All

By stripping away many components of traditional servers and collectively relying on additional functions of the enclosure that houses them, \_\_\_\_\_ servers are able to consume significantly less power while completing the same processes.

- a) blade
- b) reflective
- c) converged
- d) ensured

Based on the bus type, hard disks can be categorized into

- a) advanced technology attachment (ATA)
- b) serial advanced technology attachment (SATA)
- c) small computer system interface (SCSI)
- d) All of the above

dynamic RPM scheme can yield a power savings of up to\_\_\_\_\_

- a) 80%
- b) 60%.
- c) 70%
- d)50%

Which of the following action takes place in the formation of ozone?

- a. Action of daylight on oxygen

- b. Action of daylight on nitrogen
- c. Action of daylight on hydrogen
- d. Action of daylight on phosphorous

Mandatory fields of User Datagram Protocol (UDP) packets does not include:

- a) the Source Address (16 bits),
- b) Destination Address (16 bits),
- c) Length (16 bits)
- d) DATA

How can an organizations reengineering process be more environment ready ?

- a) Both of these
- b) Not knowing the needs
- c) Not making a plan
- d) None of these

SSDs have gained increased adoption due to

- a) higher power efficiency.
- b) better performance potential
- c) none of the above
- d) both

With the power needed for cooling and other auxiliary services, electricity use rises to \_\_\_\_\_ equivalent to the power used by all the country's colour televisions.

- a. 2%
- b. 1%
- c. 1.2%
- d. 3%

why is cloud storage popular?

- a) convenience
- b) flexibility
- c) affordability
- d) All

With all attributes being mandatory in each packet, there is therefore \_\_\_\_\_bits of overhead in the AODV RREQ message.

- a) 192
- b) 128
- c)156
- d) 240

To maintain the datacenter at the right level

- a) Lockout Economizer whenever necessary
- b) Both of these
- c) Establish a humidity sensor calibration schedule
- d) None of these

Which is the correct formula for maximizing the number of successful data packet sends

- a) minimize  $O \in N^*(i,j ;G)$

- b) minimize  $M \ n \in N^*(i,j ;G)$
- c) Minimize  $R \ n \in N^*(i,j ;G)$
- d) maximize  $S \ n \in N^*(i,j ;G)$

EPEAT stands for \_\_\_\_\_

- a) Electronic Purchase Environmental Assessment Tool
- b) Ecommerce Product Environmental Assessment Tool
- c) Electronic Product Environmental Assessment Tool
- d) Electric Product Environmental Assessment Tool

Which is the correct order of storage device in terms of increasing capacity?

- a) Tape, SSD, hard disk
- b) SSD, hard disk, Tape
- c) Tape, hard disk , SSD
- d) hard disk, tape, SSD

\_\_\_\_\_ is charitable non-governmental organization which focuses on reducing the export of hazardous waste from development countries to developing countries.

- a) Basel Action Network
- b) Byte Back program
- c) RoHS
- d) StEP(Solving e-waste problem )

What is the hazardous pollutant released from circuit boards?

- a) Barium
- b) Arsenic
- c) Copper
- d) Lead

\_\_\_\_\_ aim to reduce the amount of e-waste going to landfills and increase recovery and recycling rates.

- a. DEEE
- b. MEEE
- c. NEEE
- d. WEEE

Based on what the Kyoto Protocol set emission reduction targets for the group of greenhouse gases?

- a. Hydrogen equivalents
- b. Carbon dioxide equivalents
- c. Oxygen equivalents
- d. Nitrogen equivalents

What is taken care of in Management Information Base(MIB)?

- a) current state and time spent in each state
- b) total energy consumed at a device
- c) current battery charge, age, state and time when last used.
- d) All

Direct emission are the emissions from the sources owned by the company

- a) May not be
- b) Maybe
- c) No
- d) Yes

Indirect emission are the emissions that are generated by the activities of the company but the sources can be owned by outsiders.

- a) No.
- b) Maybe
- c) May not be
- d) Yes

These are the second-order effects that arise from IT applications that reduce environmental impacts across several economic and social activities and may include consolidations, integration, optimization, dematerialization and substitution.

- a. systematic
- b. direct
- c. indirect
- d. Enabling

The Real-Time Protocol (RTP) packet header contains the fields:

- a) Contributing Source (CSRC) Count (4 bits)
- b) Marker (1 bit)
- c) Payload Type (7 bits)
- d) All

Power Usage Effectiveness is calculated by:

- a) Dividing energy used for the IT department by energy used for the entire organization
- b) Multiplying energy used per hour by number of operating hours per year for the IT department
- c) Dividing energy needed to power IT equipment by total number of servers
- d) Dividing energy used to maintain IT facilities by energy needed to power IT equipment

Which set of standards addresses environmental management systems?

- a) ISO 26000
- b) ISO 9000
- c) ISO 14000
- d) ISO 31000

\_\_\_\_\_ is achieved using specialized software which creates partitions of a server into smaller virtual servers to maximize server resources.

- a) communication
- b) Transmission
- c) Socialization
- d) Virtualization

\_\_\_\_\_ also provides immediate access to timely business data so they can be used for internal corporate analytics if needed.

- a. Tiering
- b. Sustainability

- c. Networking
- d. computerization

SSDs have the lowest power consumption rate of active devices when compared with

- a) dynamic random-access memory (DRAM)
- b) hard disks.
- c) both dynamic random-access memory (DRAM) and hard disks.
- d) none

PALRU consumes \_\_\_\_\_ less energy than traditional LRU.

- a) 12–16%
- b) 13–16%
- c) 14–16%
- d) 12–15%

Business for Social Responsibility suggest that carbon reductions are achievable by

- a) Reducing transit distances;
- b) Removing nodes or legs;
- c) Reducing total volume and/or mass shipped;
- d) All

It is an array of servers that are managed by a virtual storage system.

- a) Application virtualization
- b) Storage virtualization
- c) Desktop virtualization
- d) Network virtualization

Cooling needs are calculate using

- a) Window
- b) Room size
- c) People in the room
- d) All of these

The Policy & Legislation of StEP program deals with reporting an analysingthe status of existing techiques and policies for managing e-waste

- a) No
- b) May not be
- c) Maybe
- d) Yes

Green technology allows us to \_\_\_\_\_

- a. use solar energy
- b. use wind energy
- c. use water energy
- d. all the above

SSD features includes:

- a) small size, low weight.
- b) low power consumption, high shock resistance

c) fast read performance.

d) All

\_\_\_\_\_ contains disk platters on a rotating spindle and read-write heads floating above the platters.

a) soft disk drive (SDD)

b) hard disk drive (HDD)

c) USB

d) CD ROM

IT contributes to only about \_\_\_\_\_ of GHG emissions.

a. 2.5-3%

b. 3-4%

c. 1-2%

d. 2-3%

The Real-Time Protocol (RTP) packet header contains the fields:

a) Version (2 bits),

b) Padding (1 bit),

c) Extension (1 bit),

d) All

which IT impact include both positive and negative impacts due to the physical existence of IT goods and services and related processes.

a) indirect

b) systematic

c) enabling

d) direct

Buildings employing \_\_\_\_\_ solar techniques have walls, floors, ceilings, and more that are designed to gather and disperse solar heat to both air and water.

a) passive

b) static

c) reactive

d) active

is still a major data storage medium especially in some industries such as radio and TV broadcasting because of its very low storage-per-bit cost.

a) CD ROM

b) CD RAM

c) hard disk

d) none

Green initiatives let us revisit and examine our IT systems and their operations in terms of energy efficiency and \_\_\_\_\_, and thus can reduce energy bills.

a. Communication

b. Green efficiency

c. resource utilization

d. materialization

Adopting green IT cannot save huge amount of organizations money on hardware and power as compared to current practices.

- a) No
- b) Maybe
- c) Yes
- d) May not be

The panels that absorb solar radiation made of silicon and coated with tempered glass and mounted on the roof of a free standing pole shows

- a) Low power computer
- b) Net metering
- c) Sell back panels
- d) Inverter

In order to stop the accumulation of \_\_\_\_\_ in the atmosphere, global emissions would have to stop growing and be reduced by an astonishing 60% from today's levels by 2050

- a. carbon
- b. GHG
- c. nitrogen
- d. oxygen

Who defines techniques to monitor and control telecommunication infrastructure in response to collected context and predefined alarm conditions?

- a) EMAN
- b) ETSI
- c) IEEE
- d) none of the above

Which one of the following options is incorrect for Green technology?

- a) the use of technology that makes products and processes more environmentally friendly
- b) to develop methods of low power consumption
- c) to reduce the consumption of non-renewable resources of energy
- d) to use all the green options on the planet

Development of technology should be

- a. aimed to use all our resources
- b. not to use any resources
- c. only use technology irrespective of environmental effects
- d. in a positive way that is helpful for environment

Which is the correct formula for minimizing the number of overhead packets per protocol:

- a) minimize  $O \in \mathbb{N}^*(i, j; G)$
- b) minimize  $M \in \mathbb{N}^*(i, j; G)$
- c) Minimize  $R \in \mathbb{N}^*(i, j; G)$
- d) maximize  $S \in \mathbb{N}^*(i, j; G)$

Recycling reduces

- a) all of the above
- b) air pollution

- c) energy usage
- d) water pollution

Mandatory bits associated with Transmission Control Protocol (TCP) packets include:

- a) the Source Port (16 bits),
- b) Destination Port (16 bits),
- c) Sequence Number (32 bits),
- d) All

EPEAT does not address which criteria?

- a) Packaging attributes
- b) Manufacturing
- c) Corporate performance
- d) Management of end of life products

The main techniques for energy management of individual disks are

- a) dynamic rotations per minute (DRPM).
- b) state transitioning
- c) state transitioning, rotations per minute (DRPM).
- d) state transitioning, caching and dynamic rotations per minute (DRPM).

A system that employs hundreds or thousands of hard drives for near linedata storage are called

- a) RAID
- b) EPEAT
- c) StEP
- d) MAID

\_\_\_\_\_refers to online storage generally offered by third parties, instead of storing data to the local storage devices.

- a) Cloud storage
- b) USB storage
- c) hard disk
- d) none of the above

A \_\_\_\_\_ screensaver conserves more power than a screensaver that displays moving images, which continually interacts with the CPU.

- a. animated
- b. blank
- c. fresh
- d. pure

Option 1

In an organization where the media is played from a CD,DV or hard drive,the application buffers are set large enough to store as much of the mediain memory as possible

- a) Doing this crashes the computers
- b) Doing this reduces power
- c) Doing this increases power
- d) Doing this crashes the server

The routing protocol AODV supports a number of packet types, which include:

- a) Route Request (RREQ), Route Reply (RREP), Route Error, Route Reply Acknowledgement.
- b) Route Request (RREQ), Route Error, Route Reply Acknowledgement.
- c) Route Request (RREQ),Route Reply (RREP), Route Reply Acknowledgement.
- d)Route Request (RREQ),Route Reply (RREP), Route Error

The main composition of biogas is \_\_\_\_\_

- a. Methane
- b. Carbon dioxide
- c. Nitrogen
- d. Hydrogen

What is the iron and steel constitute of e-waste?

- a) 20
- b) 30
- c) 40
- d) 50

\_\_\_\_\_ refers to creating software addressing environmental requirements and perspectives.

- a. Conceptual software development
- b. Sustainable software development
- c. System software Development
- d. Environmental Software development

Which working group has proposed MIB structures specific to the challenge of improved communication efficiency?

- a) EMAN
- b) ETSI
- c) WEEE
- d) ENAM

How many percent of carbon dioxide increased in the atmosphere since pre-industrial times?

- a. About 10%
- b. About 20%
- c. About 30%
- d. About 40%

For greenhouse effect greenhouse gases interacts with which one of the following options?

- a. Wind's energy
- b. Sun's energy
- c. Atmosphere pressure
- d. Pollution in the atmosphere

\_\_\_\_\_ is also about using IT to support, assist and leverage other environmental initiatives and to help create green awareness

- a. Green IT
- b. Environmental IT
- c. Sustainable IT
- d. Information Technology

Steps to measure carbon footprinting does not include

- a) Do not Report the result to stakeholders
- b) Baseline should be set
- c) Define what all things contribute to carbon footprint
- d) Track and analyze carbon footprint of organization

Business for Social Responsibility suggest that carbon reductions are achievable by

- a) Enabling cleaner sourcing and manufacturing;
- b) Lowering emissions in transit;
- c) Enabling cleaner warehouse operations;
- d) All

What is the hazardous pollutant released from telephones?

- a) Lithium
- b) Copper
- c) Barium
- d) Lead

\_\_\_\_\_ standard also includes an alert signal which can be used to awaken those connections which have been sent to the sleep state when data arrive for transmission across an Ethernet link.

- a) ROHS
- b) IEEE
- c) WEEE
- d) PEEE

The total power consumption ( $P_{total}$ ) of a hard disk is

- a)  $P_{total} = P_{spindle} + P_{head} + P_{other}$
- b)  $P_{total} = P_{spindle} + P_{head}$
- c)  $P_{total} = P_{spindle} + P_{other}$
- d)  $P_{total} = P_{spindle}$

Hard drives are in one of the following states

- a) active
- b) standby
- c) idle
- d) All

Which is the correct order of storage device in terms of increasing speed?

- a) Tape, SSD, hard disk
- b) SSD, hard disk, Tape
- c) Tape, hard disk, SSD
- d) hard disk, tape, SSD

\_\_\_\_\_ is all about meeting needs and seeking a balance between people, the environment and the economy.

- a. Sustainability
- b. Cloud Computing
- c. Investors
- d. Green IT

Which one of the following result takes place due to global warming?

- a. Maintaining steady temperature
- b. Changes in the rainfall
- c. Pleasant environment
- d. Causing less pollution

The increased number of computers and their use, along with their frequent \_\_\_\_\_, make IT's environmental impact a major concern.

- a.Replacements
- b. Refurbish
- c. Reuse
- d. Recycle

\_\_\_\_\_ is a measure of amount of energy consumed per square feet of floor space.

- a) storage density
- b) SWaP
- c) Data Center Density
- d) storage utilization

There is a minimum of \_\_\_\_\_ bits of overhead in RIP packets.

- a) 176
- b) 156
- c)200
- d) 128

The EPA's product rating system that assesses the environmental impact of consumer and commercial products is called

- a) Energy Star
- b) Energy Check
- c) Energy Point
- d) Energy Score

\_\_\_\_\_ classifies all disks based on access patterns into two classes – priority (disks with fewer cold misses and longer idle times) and regular – and maintains two separate LRU queues.

- a) PALRU
- b) PBLRU
- c) none
- d) PPLRU

\_\_\_\_\_ describes the network's ability to reduce carbon contributions from those incurred prior to the application of energy efficiency and extend the network's lifetime whilst maintaining QoS.

- a) Energy Awareness
- b) Energy Efficiency
- c) None of the above
- d) Security

\_\_\_\_\_ refers to the transformation of physical goods to information goods represented in digital form – “turning atoms to bits.”

- a. Dematerialization
- b. Dematuration
- c. Deactivation
- d. Diminishing

People who green wash are \_\_\_\_\_

- a. using a form of spin in which green PR or green marketing is deceptively used to promote the perception that an organization's products, aims or policies are environmentally friendly
- b. using a form of spin in which the colour green is used in all marketing communications activity to promote the perception that an organization's products, aims or policies are environmentally friendly
- c. using green PR or green marketing to guarantee that an organization's products, aims or policies are environmentally friendly
- d. none of the above

Cooling needs are calculate using

- a) Window
- b) Equipment
- c) All of these
- d) Lighting

which of the following is not component of Intranet

- a) WAN
- b) Web Browser
- c) LAN
- d) Web server

EMANS drafts define \_\_\_\_\_ structures designed to empower networks with energy awareness such that efficiency may be achieved.

- a) management information base (MIB)
- b) management internet base (MIB)
- c) management inter base (MIB)
- d) mobile internet base (MIB)

UAE takes the lead in growing green and aims to

- a. not to use green technology
- b. become one of the World leaders in green products and technology
- c. to avoid waste only
- d. to reduce carbon emission only

What is the hazardous pollutant released from calculators?

- a) Copper
- b) Lithium
- c) Mercury
- d) Lead

\_\_\_\_\_ represents a paradigm shift. It is a transition from computing-as-a product to computing-as-a-service, which is shared and scalable on demand.

- a. duplication
- b. Cloud computing
- c. Distributed computing
- d.Parallel Computing

Option 1

\_\_\_\_\_ is one of the fastest growing components of wastestream in the world.

- a) e-waste
- b) e-learning
- c) e-shopping
- d) use of internet

Power consumption in the idle or retention state is \_\_\_

- a) 0
- b) 1.5 unit
- c) 2 units
- d) 3 units

A \_\_\_\_\_ is a private Internet operating within organization.

- a) Arpanet
- b) WIFI
- c) blue tooth
- d)Intranet.

Which of the hazardous pollutant occurs in plastic?

- a) Lithium
- b) Lead
- c) PCBs
- d) Copper

Which of the following element make e-waste hazardous in nature?

- a) Iron
- b) Glass
- c) Plastic
- d) Lead

It helps a user to have remote access to an application from a server.

- a) Desktop virtualization
- b) Network virtualization
- c) Application virtualization
- d) Storage virtualization

How can an organizations reengineering process be more environment ready ?

- a) Making a plan
- b) None of these
- c) Knowing your need
- d) Both of these

Who defines strategies to optimize the power required to operate Ethernet technology?

- a) HOS

- b) ETSI
- c) IEEE
- d) WEEE

These impacts and their application on the environment, also called third-order effects, involve behavioral change, process change and other non technological factors.

- a. systematic
- b. indirect
- c. direct
- d. enabling

Example of sustainable city built in the UAE.

- a. Dubai Silicon Oasis
- b. Sustainable City
- c. Masdar City
- d. All of the above

\_\_\_\_\_ refers to the practice of organizations exaggerating their green credentials and environmental sustainability attributes, and making false claims.

- a. Green washing
- b. Green IT
- c. Green Manure
- d. Green Communication

Switching from the standby to active state involves restarting the spindle motor and hence is on the order of seconds, typically about \_\_\_\_\_

- a) 7–8 seconds.
- b) 8–10 seconds.
- c) 8–12 seconds.
- d) 6–10 seconds.

Component that is require to build an intranet is?

- a) LAN
- b) Web server
- c) All of these
- d) Web page developer software

The power consumed by the spindle motor ( $P_{spindle}$ ) is

- a) directly proportional to the square of its angular velocity ( $\omega$ )
- b) inversely proportional to the square of its angular velocity ( $\omega$ )
- c) directly proportional to the square of velocity ( $\omega$ )
- d) directly proportional to its angular velocity ( $\omega$ )

\_\_\_\_\_uses solid-state memory (i.e. nonvolatile memory) to store persistent data and has no moving parts.

- a) HDD
- b) SSD
- c) USB
- d) CD

The United Nations Environment Program estimates that \_\_\_\_\_million tons of e-waste are generated worldwide each year, and this is increasing.

- a. 20–60
- b. 20–50
- c. 10–50
- d. 20–40

There is a need for sustainable solutions as\_\_\_\_\_

Question Type

- a. Our current technological innovations have an effect on the environment
- b. To keep using our non-renewable resources
- c. to completely use the resources and leave nothing for future
- d. None of the above

Which is a Energy Management Techniques for Hard Disks?

- a) Caching
- b) state transistion
- c) Dynamic RPM
- d) All

What is called for the phenomenon when the radiation absorbed by the atmosphere is re-radiated towards the surface of the Earth?

- a. Smog
- b. Newton effect
- c. Darwin effect
- d. Greenhouse effect

\_\_\_\_\_ evaluates electronic products according to three tires of environmental performance : bronze , silver, and gold.

- a) EEAT
- b) EPEAT
- c) WEE
- d) WEEE

Which is the correct formula for minimizing retransmission attempts R

- a) minimize  $O \in \mathbb{N}^*(i,j ;G)$
- b) minimize  $M \in \mathbb{N}^*(i,j ;G)$
- c) Minimize  $R \in \mathbb{N}^*(i,j ;G)$
- d) maximize  $S \in \mathbb{N}^*(i,j ;G)$

MAID stands for

- a) Mass Array of Idle Disks
- b) Massive Array of Idle Disks
- c) Massive Active Indian Disks
- d) Massive Action Idle Disks

\_\_\_\_\_ is a system that employs hundreds or thousands of hard drivesfor near-line storage.

- a) RAID

- b) MAID
- c) SAID
- d) Green Hard Drive

Which is the most abundantly found greenhouse gas?

- a. Carbon dioxide
- b. Water vapor
- c. Methane
- d. Nitrous oxide

Development of technology should be

- a. aimed to use all our resources
- b. not to use any resources
- c. only use technology irrespective of environmental effects
- d. in a positive way that is helpful for environment

Business for Social Responsibility suggest that carbon reductions are achievable by

- a) Consolidating movements;
- b) Contributing to reductions elsewhere; and
- c) Increasing recycling and reuse.
- d) All

Option 1

RoHS stands for

- a) Resting of hazardous substance
- b) Restriction of hazardous substance
- c) Restriction of hazard of substance
- d) Resting of happening substance

From the point of view of network protocols, the number of bits involved can be reduced by \_\_\_\_

- a) minimizing the number of overhead packets per protocol,
- b) minimizing the number of mandatory bits per protocol,
- c) minimizing retransmission attempts
- d) All

The Energy Monitoring MIB collects attribute details which include?

- a) power cost per packet
- b) duration of power demand intervals
- c) maximum demand in a window.
- d) All of the above

Point out the correct statement.

- a) A cloud has multiple application instances and directs requests to an instance based on conditions
- b) A client can request access to a cloud service from any location
- c) All of the mentioned
- d) Computers can be partitioned into a set of virtual machines with each machine being assigned a workload

The Real-Time Protocol (RTP) packet header contains the fields:

- a) Timestamp (32 bits),
- b) Synchronization Source Identifier (32 bits)
- c) CSRC Identifier (0–15 items, 32 bits each).
- d) All

\_\_\_\_\_ is a server chassis housing multiple thin , modular electronic circuit board that are dedicate to a single application

- a) Storage Servers
- b) Cloud servers
- c) Application Servers
- d) Blade Servers

Sun Microsystem operates its own telecommuting program called \_\_\_\_\_

- a) iWork
- b) Internet
- c) Infosys
- d) windows

There is a need for sustainable solutions as\_\_\_\_\_

Option 1

\_\_\_\_\_ is the elimination of coarse-grained redundant data, typically to improve storage utilization.

- a. Dematerialisation
- b. Data de-duplication
- c. Duplication
- d. Tiering

There is \_\_\_\_\_bits of overhead in UDP packets prior to the encapsulation of application data.

- a) 64
- b) 32
- c)46
- d)128

Green IT is a \_\_\_\_\_ term referring to environmentally sound information technologies and systems, applications and practices

- a. Applications
- b. Environmental
- c. Umbrella
- d. Sustainable

When do greenhouse gases cause global warming?

- a. When their concentration is enhanced
- b. When their concentration is decreased
- c. When there are no greenhouse gases
- d. When greenhouse gas released in balance way

To achieve sustainable and lower cost services through green technology, networks require the which of these core capabilities

- a) energy efficiency

- b) energy awareness
- c) both (a) and (b)
- d) none

\_\_\_\_\_ allows exchange of business documents in a standardized electronic format between business partners.

- a) Electronic Data Interchange ( EDI)
- b) Google
- c) WhatsApp
- d) Internet Explorer

\_\_\_\_\_ refers to ways of minimizing networks' impact on the environment using energy-efficient networking technologies, protocols and products and minimizing resource use whenever possible

- a. Communication networks
- b. Green networking
- c. Network systems
- d. Digital network

System level energy management techniques are

- a) RAID with Power Awareness
- b) Power-Aware Data Layout
- c) Hierarchical Storage Management
- d) All

Mandatory bits associated with Transmission Control Protocol (TCP) packets include:

- a) Checksum (16 bits),
- b) Urgent Pointer (16 bits)
- c) the variably sized fields Options and Padding.
- d) All

\_\_\_\_\_ discarded computers and electronic goods – is one of the fastest-growing waste types and poses serious environmental problems.

- a. E-waste
- b. E-commerce
- c. Green waste
- d. Fresh waste

Which is the correct order of storage device in terms of decreasing speed?

- a) Tape, SSD, hard disk
- b) SSD, hard disk, Tape
- c) Tape, hard disk , SSD
- d) hard disk, tape, SSD

Through consolidation and \_\_\_\_\_ one can reduce machines in a organization

- a) Socialization
- b) Virtualization
- c) Materialization
- d) Personalization

\_\_\_\_\_ is a not a toxic material contained by IT hardware.

- a. chromium
- b. cadmium and mercury
- c. lead
- d. oxygen