Department of Computer Science and Engineering

CS8078 – Green Computing

Unit III - MCQ Bank

1. Creating more logical IT resources, within one physical system is called _____.

(A) Load balancing

(B) Hypervisor

(C) Virtualization

(D) None of these

Answer : C

2. What is most commonly used for managing the resources for every virtual system?

(A) Load balancer

(B) Hypervisor

(C) Router

(D) Cloud

Answer : B

3. Which is not a benefit of virtualization?

(A) Flexible and efficient allocation of resources

(B) Lowers the cost of IT infrastructure

(C) Remote access and rapid scalability

(D) Run on single operating system

Answer : D

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

(A) Application virtualization

(B) Network virtualization

(C) Desktop virtualization

(D) Storage virtualization

Answer : A

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

(A) Application virtualization

(B) Network virtualization

(C) Desktop virtualization

(D) Storage virtualization

Answer : D

6. It has the ability to run multiple virtual networks with each has a separate control and data plan.

(A) Application virtualization

(B) Network virtualization

(C) Desktop virtualization

(D) Storage virtualization

Answer : B

7. Identify the correct option: The main benefits of it are user mobility, portability, and easy management of software installation, updates, and patches.

(A) Application virtualization

(B) Network virtualization

(C) Desktop virtualization

(D) Storage virtualization

Answer : C

8. Which is the correct type of full virtualization?

(A) Software assisted

(B) IoT assisted

(C) Hardware-assisted

(D) Software assisted and Hardware-assisted both

Answer : D

9. Identify virtualizations: It emulates the hardware using the software instruction sets.

(A) Software assisted full virtualizations

(B) IoT assisted full virtualizations

(C) Hardware-assisted full virtualizations

(D) None of these

Answer : A

10. Identify virtualizations: Due to binary translation, it often criticized for performance issues.

(A) Software assisted full virtualizations

(B) IoT assisted full virtualizations

(C) Hardware-assisted full virtualizations

(D) None of these

Answer : A

11. Recycling reduces

(A) energy usage

(B) air pollution

(C) water pollution

(D) all of the above

Answer : D

12. The international recycling logo consists of ___ chasing arrows.

(A) two

(B) three

(C) four

(D) five

Answer : B

13. Recycle is ___ component of waste hierarchy.

(A) first

(B) second

(C) third

(D) fourth

Answer : C

14. Following ISO standard is for environmental management control of recycling practice.

(A) 14001:2012

(B) 14001:2013

(C) 14001:2014

(D) 14001:2015

Answer : C

15. Which of the following legislative option(s) has (have) used to create stable supply?

(A) mandatory recycling collection

(B) container deposit legislation

(C) refuse bans

(D) all of the above

Answer : C

16. Container deposit legislation involves

(A) imposing fine for not returning the container

(B) offering a refund for the return of certain containers

(C) crushing the container after use

(D) none of the above

Answer : C

17. The raw material that is sent to, and processed in a waste recycling plant or materials recovery facility which will be used to form new products

(A) Recyclate

(B) Recycling material

(C) recycled material

(D) none of the above

Answer : A

18. Following material has highest recyclate quality

(A) paper

(B) plastic

(C) steel

(D) oil

Answer : C

19. Following is (are) the system(s) to collect recyclates from the general waste stream.

(A) Curbside collection

(B) buy back centers

(C) drop-off centers

(D) all of the above

Answer : C

20. Plastic Pyrolysis can convert petroleum based streams such as plastics into

(A) fuels

(B) carbons

(C) both (A) and (B)

(D) wax

Answer : C

21. Which public cloud provider has announced green data center initiatives?

Cisco Systems

(A)IBM

(B)HP

(C)All of the above

(D)Answer : D

22. True or False? Using water to cool a data center can harm the local environment.

(A)True

(B)False

Answer : A

23. True or False? Packing more virtual machines (VMs) onto fewer physical servers can slash
   your electricity bill.

(A)True

(B)False

Answer : B

24. What is the first step in data center energy-efficiency planning?

(A).Cut reliance on nuclear power

(B).Cut reliance on coal

(C).Evaluate current data center energy usage

(D).Eliminate the need for a central, uninterruptible power supply

Answer : C

25. How can you lower data center cooling costs in an energy-efficient way?

(A).Deploy fewer VMs

(B).Build servers that run at lower temperatures

(C).Build servers that run at higher temperatures

(D).Use water to cool your data center

Answer : C

26. Where are the biggest energy savings in the cloud?

(A).Deploying virtualization

(B).Improving application delivery

(C).Upgrading storage

(D).Optimizing cooling systems

Answer : D

27. True or false? To make an efficient cloud, all servers in the cloud resource pool should be compatible.

(A).True

(B).False

Answer : A

28. The word Grid in Grid Computing comes from an analogy to the _____ Power Grid.

A).Electrical

B)Mechanical

C) Electro Mechanical

D). None of above

Answer:A

29. _____ defines the Grid as "a service for sharing computer power and data storage capacity over the Internet."

A) CERN

B) CREN

C) CENN

D) CERR

ANSWER : A

30. Grid Computing originated in the early _____ as a metaphor for making computer power as easy to access as an electric power Grid.

A) 1990s

B) 1980s

C) 1970s

D) 1950s

Answer : A