

Cloud Computing

Points: 17/45

Time: 18:50

1. Write your name: *

ROSHNI VERMA

2. Choose your location: *

- ☐ NSTI Calicut
- ☐ NSTI Howrah
- ☒ NSTI Kolkata
- ☐ NSTI Vidyanagar

✓ **Correct** 1/1 Points

3. Which of the following circumstances might prompt a company to develop proprietary software for a cloud solution?

- ☒ High risk of security issues
- ☐ Lack of software development tools
- ☐ Lack of software developers

☐ Minimal community engagement

✓ **Correct** 1/1 Points

4. Which of the following are examples of cloud computing in everyday life?

- ☐ An automaker uses cloud-based services to make driver and vehicle data available to guide drivers to efficient traffic routes.
- ☐ A bank uses private cloud to build new online and mobile banking services.
- ☐ A retail chain uses a cloud platform to create an enhanced atmosphere for customer interaction online and instore.
- ☒ All of these.

✓ **Correct** 1/1 Points

5. A local company is opening a second location and both sites need access to all company data. They know that it will be a large and expensive project to build out the infrastructure and hardware, so they are looking to the cloud.

Which cloud service model is most appropriate for this company?

- ☐ Platform as a service (PaaS)
- ☐ Software as a service (SaaS)
- ☒ Infrastructure as a service (IaaS)
- ☐ Hardware as a service (HaaS)

✓ **Correct** 1/1 Points

6. Which of the following is a benefit of using proprietary software?

- ☐ It allows developers to freely share, modify, and distribute the software.
- ☐ It enables developers to access the source code and customize the software.
- ☒ It ensures that developers are compliant with licensing terms and avoid legal issues.
- ☐ It reduces the cost of software development and maintenance.

✓ **Correct** 1/1 Points

7. What are the benefits of cloud computing?

- ☐ Improved efficiency
- ☐ Revenue growth
- ☐ Expanded innovation potential
- ☒ All of these

✗ **Incorrect** 0/1 Points

8. Which of the following is a popular cloud service provider that offers a suite of artificial intelligence (AI) tools and services that leverage natural language processing (NLP), machine learning, and deep learning to analyze large amounts of unstructured data?

- ☐ Microsoft Azure

- ☐ Google Drive
- ☒ Amazon Web Services (AWS)
- ☐ IBM Cloud

✓ **Correct** 1/1 Points

9. How does AWS differentiate itself from other cloud providers?

- ☐ By providing strong support and integration with its products
- ☐ By focusing on the future of computing with quantum computing
- ☐ By offering a strong community for developers to share their knowledge and experience
- ☒ By offering the lowest cost to create, deliver, and manage content on the cloud

✓ **Correct** 1/1 Points

10. What is cloud computing?

- ☐ A region of the Internet that is available for application development
- ☒ Delivery of on-demand computing services over the Internet
- ☐ Any part of a company's server infrastructure
- ☐ Database management software available through use of virtual servers

✗ **Incorrect** 0/1 Points

11. A start-up company wants to launch a new online service. They need to access ready-made tools and an infrastructure for developing, testing, and hosting their application.

Which cloud service model is most appropriate for this company?

- ☐ Database as a service (DBaaS)
- ☐ Platform as a service (PaaS)
- ☐ Storage as a service (SaaS)
- ☒ Software as a service (SaaS)

✗ **Incorrect** 0/1 Points

12. A small start-up company is building a new social media application. They have a small design budget and want to build uniform features that are familiar to users.

What is one advantage of using an open source approach rather than using proprietary software?

- ☐ Open source software provides more customization options than proprietary software.
- ☐ Open source software allows the company to use existing code and resources, which can save time and money.
- ☒ Open source software can be updated and improved more frequently than proprietary software.
- ☐ Open source software requires less technical expertise to use than proprietary software.

✗ **Incorrect** 0/1 Points

13. In the SaaS model, cloud computing allows consumers and businesses to use applications without installation and access their personal files at any computer

with internet access. Which is an example of a SaaS application?

- ☐ Buying from an online website
- ☐ Using cloud tools to build and deploy apps in the cloud
- ☒ Pay-as-you-go access to networking and virtualization services
- ☐ Uploading pictures to Dropbox

✗ **Incorrect** 0/1 Points

14. A large online retail company sees a spike in business during the holiday season and they use the scale out functionality of their cloud provider's IaaS service to scale their website as needed.

By scaling out their infrastructure, what benefits does the company gain?

- ☐ They only pay for extra infrastructure when they need it.
- ☒ They ensure that their website is available and responsive.
- ☐ All the above
- ☐ None of these

✗ **Incorrect** 0/1 Points

15. AWS is the largest provider of cloud services to businesses and developers. Which of the following statements is correct about the tools AWS offers for the cloud?

- ☐ AWS offers a global network of groups, clubs, and events for learning and sharing.
- ☒ AWS provides machine learning and AI services to use for content and analysis.
- ☐ AWS provides analytic tools so businesses can collect and analyze data.

☐ All of the above

✗ **Incorrect** 0/1 Points

16. An online retail company sees spikes in traffic on their website around holidays. The company needs a cloud service that can scale up during high traffic months and scale down in low traffic months.

Which cloud service model could provide value to this company?

- ☐ Database as a service (DBaaS)
- ☐ Infrastructure as a service (IaaS)
- ☐ Hardware as a service (HaaS)
- ☒ Platform as a service (PaaS)

✗ **Incorrect** 0/1 Points

17. A city's cloud computing system needs to properly handle an increase in web traffic when reporting vote results in an upcoming election. A lot of people will be visiting the city website to view latest counts the day of and the day after the election.

What cloud service does the city need?

- ☐ IaaS to scale out their cloud service to handle more web traffic on those two days
- ☐ IaaS to add software to decrease web traffic on those two days
- ☒ IaaS to address the potential performance problem with a virtual machine
- ☐ IaaS to scale up their configuration automatically on those two days

✓ **Correct** 1/1 Points

18. On premises refers to which of the following?

- ☐ It is a server with remote access for administrators.
- ☒ It is a solution installed and hosted in house, and is usually supported by a third party.
- ☐ It is a cloud solution with dedicated hardware hosted by a third party.
- ☐ It is dedicated hardware that happens to be in a different location.

✗ **Incorrect** 0/1 Points

19. A bank is researching new customer management software.

Why might the bank choose an in-house, proprietary software solution over open source for this application?

- ☐ Proprietary software is less expensive to deploy than open source software
- ☐ Proprietary software gives the bank more visibility into the security of the software
- ☒ Proprietary software is easier to develop and use than open source software
- ☐ Proprietary software is always more secure than open source software

✓ **Correct** 1/1 Points

20. Which cloud service model enables the use of virtual machine computing resources for customers to run their applications in the cloud?

- ☐ Hardware as a service (HaaS)

- ☐ Database as a service (DBaaS)
- ☐ Platform as a service (PaaS)
- ☒ Infrastructure as a service (IaaS)

✓ **Correct** 1/1 Points

21. Aidan is a gamer who wants to create and launch his own video game that can reach some of his gamer friends around the globe.

Which cloud provider should he choose if he would like a dedicated gaming service in the cloud?

- ☐ Google Drive
- ☐ IBM Cloud
- ☒ Microsoft Azure
- ☐ Amazon Web Services (AWS)

✗ **Incorrect** 0/1 Points

22. With _____, a company can potentially increase productivity and promote collaboration because employees have access to the suite of secure, cloud-based tools and files they need to do their work from anywhere.

- ☐ PaaS
- ☐ SaaS
- ☐ IaaS

☒ Scaling

✗ **Incorrect** 0/1 Points

23. Which cloud environment has one cloud supplier with a lot of computing power shared with many customers?

☐ Private cloud

☒ Hybrid cloud

☐ Multicloud

☐ Public cloud

✗ **Incorrect** 0/1 Points

24. Nate uses his word processing and spreadsheet software on any device over the internet with the cloud.

Since this is a software as a service (SaaS) model, which of the following tasks does Nate NOT need to perform?

☒ Pay for the software.

☐ Sign up to use the software.

☐ Save his files.

☐ Install and manage the software.

✗ **Incorrect** 0/1 Points

25. An insurance company wants to rapidly develop a website to inform drivers about the benefits of safe driving. They use a hybrid cloud infrastructure and are considering using a pre-built open source software package on the public cloud to build the site.

Why is using open source software a good choice in this scenario?

- ☐ Driving safety is an important topic and open source is more secure than proprietary software.
- ☐ Using the open source software package could help the company develop their website more quickly.
- ☒ Open source is the only option when publishing a website to the public cloud.
- ☐ Proprietary software can't be used in a hybrid cloud environment.

✗ **Incorrect** 0/1 Points

26. Companies can use open source software without modification to help them build their cloud solutions. What other ways can they utilize open source software?

Select all that apply.

- ☐ Incorporate a company's proprietary software into the open source software.
- ☒ Copy open source software, then sell it as proprietary software.
- ☐ Use open source software to supplement or enhance proprietary software.
- ☒ Use open source software by modifying it to fit their needs.

✗ **Incorrect** 0/1 Points

27. What part of cloud technology enables this type of AI?

- ☐ Experimental opportunities
- ☐ High availability
- ☒ Data storage
- ☐ Processing power

✓ **Correct** 1/1 Points

28. Which cloud service model enables users to access physical computing components such as servers, storage, and networking components using the internet?

- ☐ Hardware as a Service (HaaS)
- ☐ Database as a Service (DBaaS)
- ☒ Infrastructure as a Service (IaaS)
- ☐ None of these

✗ **Incorrect** 0/1 Points

29. Which cloud service model refers to software deployment where software, including business processes, enterprise applications, and collaboration tools, is provided as a service to customers?

- ☐ Platform as a service (PaaS)
- ☐ Storage as a service (SaaS)
- ☐ Software as a service (SaaS)

☒ Infrastructure as a service (IaaS)

✗ **Incorrect** 0/1 Points

30. _____ is known for providing strong support to businesses and integrating with its own products so businesses that already use their products can easily adopt the cloud services.

☒ Amazon Web Services (AWS)

☐ IBM Cloud

☐ Microsoft Azure

✗ **Incorrect** 0/1 Points

31. Kendra is collaborating with co-workers on a spreadsheet their manager created. The company realizes its employees need to be productive and collaborate using office tools around the world.

Which cloud service model could provide value to this company?

☐ Software as a service (SaaS)

☐ Platform as a service (PaaS)

☒ Hardware as a service (HaaS)

☐ Infrastructure as a service (IaaS)

✗ **Incorrect** 0/1 Points

32. Which cloud service model allows companies to rent both the architecture and infrastructure, with the cloud vendor responsible for managing the entire

infrastructure?

- ☐ Storage as a service (SaaS)
- ☐ Software as a service (SaaS)
- ☐ Infrastructure as a service (IaaS)
- ☒ Platform as a Service (PaaS)

✗ **Incorrect** 0/1 Points

33. Which cloud service model refers to the delivery of a computing platform that allows users to develop, run, and manage new web-based (cloud) applications?

- ☒ Infrastructure as a service (IaaS)
- ☐ Software as a service (SaaS)
- ☐ Platform as a service (PaaS)
- ☐ Storage as a service (SaaS)

✓ **Correct** 1/1 Points

34. Shauna is working on a communication app for gamers, alongside many other developers from the gamer community. Anyone can access and modify the source code for the app, providing they accept the terms of the license.

What type of software is Shauna working on?

- ☐ Free
- ☐ Collaborative

☒ Open source

☐ Proprietary

✗ **Incorrect** 0/1 Points

35. What does the term "cloud" in "cloud computing" reference?

☐ The Internet

☐ Servers and storage

☐ On-premises computing

☒ Hosted applications

✓ **Correct** 1/1 Points

36. How does IBM Cloud differentiate itself from other cloud providers?

☐ By offering the lowest cost to create, deliver, and manage content on the cloud

☐ By having the largest user based around the world

☐ By providing strong enterprise support and integration with its products

☒ By offering hybrid cloud service, AI, and the emerging quantum computing technology

✓ **Correct** 1/1 Points

37. How does cloud computing allow people to be more flexible in their work practices?

- ☐ Cloud computing reduces IT costs for companies.
- ☐ Cloud computing stops data outages.
- ☒ Cloud computing allows people to quickly access data from anywhere.
- ☐ Cloud computing safeguards data from potential hacks.

✓ **Correct** 1/1 Points

38. Harpreet is developing a service that fulfills orders for small businesses. He's not sure how popular the service will become, so instead of buying servers, networking hardware, and storage space and maintaining them, he decides to use the cloud.

What type of service model is Harpreet using?

- ☐ PaaS
- ☐ DBaaS
- ☐ SaaS
- ☒ IaaS

✗ **Incorrect** 0/1 Points

39. You're a developer helping a friend who owns a small business that does investigative work for law firms. Your friend needs to store client files and share documents between two offices. Together you decide to build an open source cloud.

Which of the following steps do you need to perform as part of your development?

- ☐ Choose speech services for the cloud so the small business can analyze speech data.

- ☐ Choose an open source cloud storage platform that you can configure to set up employees with the permissions they need to access the files.
- ☐ Choose a cloud provider with data centers closest to where the two offices are located.
- ☒ Choose cloud integration tools and machine learning services to build content for the small business.

✗ **Incorrect** 0/1 Points

40. Todd's company provides virtual courses for students and gathers vast amounts of information, including the number of video views, minutes of video watched, and student comments on lessons. Todd is tasked with figuring out how to best store all the information that the company collects.

What cloud service model would Todd benefit from implementing?

- ☐ Platform as a service (PaaS)
- ☐ Database as a service (DBaaS)
- ☐ Storage as a service (SaaS)
- ☒ Software as a service (SaaS)

✗ **Incorrect** 0/1 Points

41. A software developer is working on a new company application for submitting business expenses for reimbursement.

Using their cloud provider's PaaS offering, what capabilities can the software developer expect?

- ☐ Business analytics to analyze data from the application to make decisions about how to improve it in the future

- ☐ Dashboards to monitor the performance of the application to make sure it's running smoothly
- ☒ Built-in frameworks to greatly simplify API development and management
- ☐ All of these

✗ **Incorrect** 0/1 Points

42. A medium-sized e-commerce company is experiencing rapid growth and has run out of storage to keep up with the volume of product, customer, and transaction information.

Which cloud service model would they benefit from implementing?

- ☒ Platform as a Service (PaaS)
- ☐ Storage as a Service (SaaS)
- ☐ Database as a Service (DBaaS)
- ☐ None of these

✗ **Incorrect** 0/1 Points

43. The server is the fundamental unit of cloud computing; a server can be physical or _____.

- ☐ Remote
- ☐ Virtual
- ☐ Distant



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44. Anand is a data analyst who concludes insights from customer feedback about his company's products. Anand can access his software and collect the data he needs from his work laptop and smart phone, whether he's in the office or at home.

Which cloud service model enables him to do this?

- ☒ Platform as a service (PaaS)
- ☐ Software as a service (SaaS)
- ☐ Database as a service (DBaaS)
- ☐ Hardware as a service (HaaS)

Incorrect 0/1 Points

45. _____ software is protected by intellectual property laws. The public cannot access the source code for this type of software.

- ☐ Private
- ☒ Open source
- ☐ Proprietary
- ☐ Cloud

Correct 1/1 Points

46. Which is a cloud environment that is operated solely for a single organization?

- ☐ Multicloud
- ☒ Private cloud
- ☐ Hybrid cloud
- ☐ Public cloud

✓ **Correct** 1/1 Points

47. What are some typical features that a business can expect when they work with a major cloud provider?

- ☐ A fast and reliable cloud experience with data centers around the world.
- ☐ A range of standard services, including IaaS, PaaS, and SaaS.
- ☒ All the above
- ☐ None of these

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