Short Questions

1. What are the main computing paradigms?
2. What is cloud computing?
3. What are the essential characteristics of cloud computing?
4. Explain on-demand self-service in cloud computing.
5. What is meant by broad network access in cloud computing?
6. How does resource pooling contribute to cloud computing?
7. What is rapid elasticity in cloud computing?
8. Explain measured service in cloud computing.
9. What is the architecture of cloud computing?
10. Describe the infrastructure layer in cloud computing architecture.
11. What is the platform layer in cloud computing architecture?
12. Explain the application layer in cloud computing architecture.
13. What is cloud computing management?
14. How is cloud computing management different from traditional IT management?
15. What are the key challenges in cloud computing management? 16. How does cloud computing management address data security and privacy concerns?
17. What are the advantages of using cloud computing management for hybrid cloud environments?
18. How does cloud computing management optimize resource allocation?
19. What strategies can be employed for controlling costs in cloud computing management?
20. How do cloud computing management practices ensure high availability and reliability?
21. What role does automation play in cloud computing management?
22. How does cloud computing management address scalability requirements?
23. What are the best practices for ensuring compliance in cloud computing management?
24. How does cloud computing management facilitate collaboration and agility?
25. What role does governance play in cloud computing management?
26. How does cloud computing management handle data migration and integration challenges?
27. What strategies can cloud computing management employ for disaster recovery

and business continuity?

28. How does cloud computing management address vendor lock-in concerns?

29. What are the key considerations for selecting a cloud computing management platform?

30. How does cloud computing management address performance monitoring and optimization?

31. What are the challenges associated with data governance in cloud computing management?

32. How does cloud computing management support DevOps practices? 33. What role does containerization play in cloud computing management? 34. How does cloud computing management address regulatory compliance requirements?

35. What are the key considerations for ensuring data sovereignty in cloud computing management?

36. How does cloud computing management address network performance and latency issues?

37. What role does artificial intelligence (AI) play in cloud computing management?

38. How does cloud computing management ensure data backup and recovery?

39. What are the security implications of multi-tenancy in cloud computing management?

40. How does cloud computing management address data sovereignty concerns in global deployments?

41. What role does encryption play in cloud computing management?

42. How does cloud computing management support regulatory compliance audits?

43. What are the considerations for disaster recovery planning in cloud computing management?

44. How does cloud computing management ensure data integrity and consistency?

45. What role does access control play in cloud computing management?

46. How does cloud computing management handle workload migration and portability?

47. What strategies can cloud computing management employ for continuous monitoring and security threat detection?

48. How does cloud computing management ensure service level agreements (SLAs) are met?

49. What role does data lifecycle management play in cloud computing

management?

50. How does cloud computing management address vendor management and relationship management?

51. What are the different cloud deployment models?

52. What are the cloud service models?

53. What are the technological drivers for cloud computing?

54. How does Service-Oriented Architecture (SOA) contribute to cloud computing?

55. What is multicore technology, and how does it impact cloud computing?

56. What are the key features of Web 2.0 and Web 3.0?

57. How does pervasive computing influence cloud computing?

58. What role do operating systems play in cloud computing?

59. What is meant by the application environment in cloud computing?

60. What distinguishes a public cloud from a private cloud deployment model?

61. How does a hybrid cloud deployment model combine public and private cloud infrastructure?

62. What is a community cloud deployment model?

63. How does Infrastructure as a Service (IaaS) differ from Platform as a Service (PaaS)?

64. What are the advantages of Software as a Service (SaaS) for end-users?

65. How does Service-Oriented Architecture (SOA) enable interoperability in cloud computing?

66. What are the benefits of multicore technology for cloud computing providers?

67. How does Web 2.0 enhance user engagement in cloud-based applications?

68. What are the characteristics of Web 3.0 applications?

69. How does pervasive computing extend the reach of cloud-based services?

70. What role do operating systems play in cloud computing environments?

71. How does the application environment impact cloud-based development?

72. What distinguishes public cloud services from private cloud services in terms of accessibility?

73. What are the key considerations for organizations when selecting a cloud deployment model?

74. How does Platform as a Service (PaaS) streamline application development and deployment?

75. What are the primary benefits of Software as a Service (SaaS) for software

vendors?

76. How does Service-Oriented Architecture (SOA) promote agility in cloud computing?

77. What advantages does multicore technology offer for cloud-based applications?

78. How does Web 2.0 foster collaboration and user interaction in cloud environments?

79. What are the key features of Web 3.0 applications?

80. How does pervasive computing enhance the user experience in cloud-based applications?

81. What role do operating systems play in supporting cloud-based services?

82. How does the application environment influence the development and deployment of cloud-native applications?

83. What distinguishes between Infrastructure as Code (IaC) and traditional infrastructure management?

84. How does the adoption of DevOps practices impact cloud computing environments?

85. What are the security challenges associated with cloud-native applications?

86. How does serverless computing impact the deployment and management of cloud-based applications?

87. What are the benefits of edge computing for cloud-based services? 88. How does containerization technology facilitate application deployment in cloud environments?

89. What role does artificial intelligence (AI) play in optimizing cloud resource management?

90. How does the adoption of microservices architecture impact cloud-based application development?

91. What are the main considerations for organizations when migrating to the cloud?

92. How does cloud computing facilitate disaster recovery and business continuity?

93. What are the advantages of cloud-based development environments for software development teams?

94. How does cloud computing support the Internet of Things (IoT) ecosystem?

95. What role does serverless computing play in modern application development?

96. How does cloud computing address data sovereignty and privacy concerns?

97. What are the key considerations for ensuring data security in cloud computing environments?

98. How does cloud computing enable global scalability for businesses?
99. What are the main challenges organizations may face when adopting cloud-native architectures?
100. How does cloud computing contribute to environmental sustainability?
101. What is virtualization?
102. How does virtualization benefit cloud computing?
103. What are the different types of virtualization?
104. What is hypervisor-based virtualization?
105. How does containerization differ from virtualization?
106. What is Docker?
107. How does containerization contribute to cloud-native development?
108. What is serverless computing?
109. What is MapReduce?
110. How does MapReduce facilitate parallel processing of data?
111. What are the advantages of using MapReduce for big data processing?
112. What is Cloud Haskell?
113. How does Cloud Haskell simplify distributed programming?
114. What are the benefits of using Cloud Haskell for cloud computing?
115. How does Cloud Haskell handle distributed state management?
116. What is serverless architecture in cloud computing?
117. How does serverless architecture differ from traditional application deployment?
118. What are the key characteristics of serverless computing?
119. How does serverless computing improve developer productivity?
120. What are the use cases for serverless computing?
121. How does serverless computing handle application scalability?
122. What are the security considerations for serverless computing?
123. How does serverless computing impact application performance?
124. What are the challenges of debugging and troubleshooting serverless applications?
125. How does serverless computing impact the cost of running applications?