FACULTY OF ENGINEERING
PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SUBJECT: OE- AZURE FUNDAMENTALS
(303105153)

GCF-Important-Questions-Final-Exam

1. Explain architecture of cloud computing.
2. Discuss about cloud computing services.
3. What are the different types of cloud computing models? Discuss advantages and disadvantages of all cloud computing models
4. Write in short about consumption-based models in cloud computing.
5. List out all the cloud computing principles.
   Unit 1
6. Explain the components of cloud computing.
7. What are the types of Cloud Computing Services?
8. Explain about Cloud Computing Architecture and its Components.
9. List out benefits of Cloud computing and describe each of them
10. What are the main advantages of cloud computing?
11. Describe consumption-based model.
12. What are the types of cloud model?
13. Define the differences between Infrastructure as a Service (IaaS),
14. Platform as a Service (PaaS), and Software as a Service (SaaS).
15. Describe public, private, community and hybrid clouds with its advantages and disadvantages?
16. Explain shared responsibility model.
17. Describe in short High Availability
18. Describe scalability and types of Scalabilities.
19. Differentiate between regions and Availability Zones.
    Unit 2
20. What is Serverless Computing? List an example of serverless computing service in Azure.
21. What is an Azure Subscription? Mention types of Subscriptions,
22. Management Groups, Resource Groups and Resources in Azure.
23. What is Azure Blob Storage used for?
24. What is the difference between Azure Blob Storage and Azure File Storage?
25. What are azure containers?
26. What is Azure App Service?
27. Explain about LRS, GRS, ZRS and RA-GRS with appropriate Figure.

28. What is Azure Virtual Networking?
29. What is Azure SQL Database?
30. Explain about SQL Database elastic pool and SQL Managed Instance Pool.
31. List and Explain various Redundancy/Replication options available in Azure Storage Service.
32. List out most common use cases of Azure Functions.

Unit 3

33. Describe Azure Active Directory and its various features including RBAC, MFA and SSO.
34. Write a brief note on Authentication and Authorization
35. Explain briefly about SSO and Multifactor Authentication
36. Describe Azure Authentication methods.
37. What is Single Sign –On?
38. What is Multi-Factor Authentication?
39. What is RBAC?
40. How does RBAC works?
41. How does Azure AD provide single sign-on (SSO) capabilities? OR Explain the concept of Single sign-on (SSO)
42. What is multi-factor authentication (MFA) and its importance in Azure?
43. What is Azure AD? Explain different edition of Azure AD?
44. Explain the concept of Azure B2B and B2C.
45. Define Azure Zero trust model.
46. Explain defence in depth.
47. What is difference between Azure Firewall and NSG?

Unit 4.

48. What is the Azure Pricing Calculator, and how can it assist in estimating costs?
49. What is azure cost management? Explain its features and functionalities.
50. Describe Azure's deprecation policies and their impact on services and users.
51. Describe the different Azure subscription options available
52. Describe About Pricing calculator and TCO Calculator.
53. What are cost management factors are their in azure.
54. Explain azure support options.
55. What is Cost Management Capabilities in Azure and Describe about Budget Alerts, Credit Alerts and Department Spending Quota Alerts.
56. What are the Factors that affect cost in Azure?

Unit 5.

57. What is the Purpose of Azure Advisor.
58. Describe Service Lifecycles in Cloud Computing.
59. Define Azure Service Level Agreements (SLAs) and explain their significance for businesses.

60. What are the deployment models in Azure?
61. What are Azure Virtual Machines (VMs), and how are they used in Azure?
62. Explain IaaS, PaaS, and SaaS models in cloud computing and its Characteristics.
63. Explain the concepts of authentication and authorization in the context of Microsoft Azure cloud services.
64. What are the benefits of using Azure AD?
65. Explain the concept of cloud computing and its key characteristics.
66. Write down the difference between Availability Zone (AZ) and Availability Set (AS).
67. Explain Azure Service Level Agreements (SLAs).
68. what is azure cost management? Explain its features and functionalities.
69. Explain Availability Set in Azure?
70. What are the differences between Azure Load Balancer and Traffic Manager?
71. Explain the use of both Pricing calculator and TCO Calculator.
72. What is the Purpose of Azure Advisor?
73. Describe the Concept Défense in Depth   with Illustration.
74. Explain Shared Responsibility Model in Azure.
75. What are the advantages of choosing cloud computing?
76. What are the Factors that affect cost in Azure?
77. What are the advantages of using resource group in Azure?
78. Write down the difference between VPN Gateway and Express Route.
79. What does Azure AD do?
80. What are the differences between Azure Active Directory (Azure AD), and on-premise Active Directory Domain Service (ADDS)?
81. What is the use of Azure Management Group?
82. Explain the different types of subscription options available in Azure.
83. What are the differences between different cloud models?
84. What are the differences between Network Security Group (NSG), Application Security Group (ASG) and Azure Firewall
85. What are the differences between Bicep and JSON Template?
86. Write down the difference between VPN Gateway and Express Route.
87. Explain the advantages of Azure Resource Manager (ARM) templates.
88. What are the benefits of the Azure Resource Manager?

89. Define cloud computing.
90. What are the main advantages of SaaS?
91. What is Azure Virtual Machine?
92. What can you do with Azure App Services?
93. What is Azure Active Directory (AAD)?
94. Explain the concept of a hybrid cloud and its advantages.
95. What is Azure Storage and how is it used in cloud computing?
96. What is identity and access management (IAM) in Azure?

97. What are the key advantages of using public cloud services?
98. How does Azure Kubernetes Service (AKS) facilitate container orchestration?
99. Explain the role of Azure SQL Database in cloud-based applications.
100. What is cloud computing? State any two real time applications of cloud computing.
101. What is Azure Resource Group?
102. What is Azure Storage? Explain in short Azure Blob Storage.
103. State any three differences between Public Cloud and Private Cloud.
104. What is Authentication and Authorization?
105. Explain different Azure Authentication methods.
106. Explain Shared Responsibility Model in Azure.
107. Compare IaaS, PaaS and SaaS.
108. Explain Redundancy Options in Azure Storage with neat diagrams.
109. Explain Cloud Computing Architecture with a neat diagram.
110. What are the advantages of choosing cloud computing?
111. Provide an example scenario where a hybrid cloud would be advantageous.
112. Explain the role of Azure Resource Manager (ARM) in managing Azure resources.
113. Describe the primary advantages of using Azure SQL Database over traditional databases.
114. How does Azure App Services support continuous delivery for applications?
115. Explain the significance of Azure Active Directory in cloud security
116. Compare and contrast Azure Blob Storage and Azure File Storage.
117. Explain the concept of "vendor lock-in" and its implications in cloud services.
118. Compare and contrast Azure Security Center and Azure Sentinel in terms of their roles in security.
119. Provide a detailed overview of the components involved in a typical IaaS architecture.
120. Discuss the challenges and considerations in implementing Azure Active Directory for identity and access management.
121. Explore the integration possibilities of Azure Logic Apps with other Azure services.
122. Explain Scalability and types of Scalabilities?
123. Explain architecture of cloud computing?
124. Explain On-premises cloud challenges?
125. Describe in High Availability?
126. What is the difference between Azure Blob Storage and Azure File Storage?
127. Discuss the advantages and disadvantages of cloud computing model?
128. Explain LRS, ZRS?
129. Explain GRS and G-ZRS?
130. Compulsory Any One
131. Explain Azure resources Group, Resource Manager and Resources?
132. Explain Difference between Azure SQL Server and Azure Cosmos DB?

133. What is the difference between IaaS, PaaS, and SaaS?
134. What is the main advantage of SaaS?
135. What is Azure Blob Storage used for?
136. What is Azure Functions primarily used for?
137. What type of database service is Azure SQL Database?
138. Explain the difference between Azure Blob Storage and Azure Files.
139. What is Azure Functions and how does it relate to serverless computing?
140. What are the key differences between Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) in the context of Azure cloud computing?
141. What are the key features and benefits of Azure App Services, and how does it simplify the deployment and management of web applications?
142. Explain Platform-as-a-Service (PaaS) and its benefits?
143. What is Software-as-a-Service (SaaS) and how does it work?