



Time: 3 hrs

GIET UNIVERSITY, GUNUPUR – 765022  
B. C. A (Fifth Semester) Examinations, October' 2022  
BCA20503 – Cloud Computing

**Maximum: 70 Marks**

**The figures in the right hand margin indicate marks.**

### PART – A: (Multiple Choice Questions)

**(1 x 10 = 10 Marks)**

Q. 1 Answer **ALL** questions

CO #	PO #
1	1
2	2
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99	99
100	100

C01      P01

a. \_\_\_\_\_ model consists of the particular types of services that you can access on a cloud computing platform.

- (i) Service (ii) Deployment  
(iii) Application (iv) None of the mentioned

b. Point out the correct statement.

CO1      PO1

- |       |   |      |  |
|-------|---|------|--|
| (i)   | The use of the word “cloud” makes reference to the two essential concepts | (ii) | Cloud computing abstracts systems by pooling and sharing resources |
| (iii) | cloud computing is nothing more than the Internet                         | (iv) | All of the mentioned   |

c. refers to the location and management of the cloud's infrastructure.

CO1      PO2

- (i) Service (ii) Deployment  
(iii) Application (iv) None of the mentioned

d. Which of the following is the deployment model?

C02      P01

- |       |        |      |                      |
|-------|--------|------|----------------------|
| (i)   | Public | (ii) | Private              |
| (iii) | Hybrid | (iv) | All of the mentioned |

e. Point out the wrong statement.

CO2      PO1

- |       |  |      |   |
|-------|--|------|---|
| (i)   | Cloud Computing has two distinct sets of models                    | (ii) | Amazon has built a worldwide network of data centers to service its search engine |
| (iii) | Azure enables .NET Framework applications to run over the Internet | (iv) | None of the mentioned   |

f. Which of the following is best known service model?

CO2      PO1

- (i) SaaS
  - (ii) IaaS
  - (iii) PaaS
  - (iv) All of the mentioned

g. The \_\_\_\_\_ model originally did not require a cloud to use virtualization to pool resources.

CO2      PO2

- |       |      |      |                      |
|-------|------|------|----------------------|
| (i)   | NEFT | (ii) | NIST                 |
| (iii) | NIT  | (iv) | All of the mentioned |

h. \_\_\_\_\_ model attempts to categorize a cloud network based on four dimensional factors.

CO1      PO1

- (i) Cloud Square                      (ii) Cloud Service  
(iii) Cloud Cube                    (iv) All of the mentioned

i. How many types of dimensions exist in Cloud Cube Model?

C01      P01

- |       |   |      |   |
|-------|---|------|---|
| (i)   | 1 | (ii) | 2 |
| (iii) | 3 | (iv) | 4 |

j. Which of the following dimension is related to organization's boundaries?

C01      P01

- |       |                           |      |                      |
|-------|---------------------------|------|----------------------|
| (i)   | Physical location of data | (ii) | Ownership            |
| (iii) | Security boundary         | (iv) | All of the mentioned |

**PART – B: (Short Answer Questions)****(2 x 10 = 20 Marks)**Q.2. Answer **ALL** questions

	CO #	PO #
a. Define Cloud Computing with a real time example.	CO1	PO1
b. What are the benefits of Cloud Computing?	CO1	PO1
c. Write a short notes on Virtual Clusters	CO2	PO1
d. Write a short notes on Cloud Infrastructure	CO2	PO1
e. Name the technologies of the future Cloud computing.	CO1	PO2
f. What is meant by Cloud Economics?	CO3	PO2
g. Write Short notes on Reliability, availability in view of deployment of a cloud.	CO4	PO2
h. Write a short note on Software-as-a-Service Security.	CO4	PO1
i. What is meant by encryption in cloud?	CO4	PO1
j. Discuss Detective control, Preventive and Deterrent control.	CO1	PO1

**PART – C: (Long Answer Questions)****(10 x 4 = 40 Marks)**Answer **ALL** questions

	Marks	CO #	PO #
3.a. Explain the different deployment models of Cloud.	5	CO1	PO1
b. Illustrate I/O Virtualization with an example.	5	CO1	PO1
<b>(OR)</b>			
c. Explain Virtualization with help of a neat diagram.	5	CO1	PO1
d. Distinguish Private and Public Cloud with neat diagrams.	5	CO1	PO1
4.a. Describe the Layered Cloud Architecture Development.	5	CO2	PO2
b. What are the Challenges to Cloud Computing?	5	CO1	PO2
<b>(OR)</b>			
c. Explain briefly how to Deploy a web service from inside and outside cloud architecture.	6	CO1	PO3
d. Explain how performance of a cloud is measured.	4	CO1	PO2
5.a. What are the various economics of choosing a Cloud platform for an organization based on application requirements?	5	CO3	PO2
b. Illustrate the various technologies used to manage cloud services deployment.	5	CO3	PO1
<b>(OR)</b>			
c. Explain Cloud Computing infrastructures available for implementing cloud based services.	5	CO3	PO1
d. Explain economic constraints and business needs with respect to Amazon, Microsoft and Google, Salesforce.com, Ubuntu and Redhat.	5	CO3	PO2
6.a Explain in detail about Risk Management.	6	CO4	PO2
b. Discuss about Security Architecture Design with a neat diagram.	4	CO4	PO1
<b>(OR)</b>			
c. Discuss in detail about Identity Management and Access Control.	6	CO4	PO2
d. Explain briefly about Virtual Machine Security.	4	CO4	PO1

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