GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR (GIET UNIVERSITY)

B.C.A (Fifth Semester) Examinations, November – 2024

BCA20503 – Cloud Computing

Time: 3 hrs   Maximum: 60 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#

a. In the fail-over configuration, services run in one computing node while the other waits to take over during outages. This refers to which feature of cluster.   CO1   PO1
    i.   Load balancing   ii.   High performance
    iii. High availability   iv.   High power backup

b. The Cloud model which allows us to share cloud resources, infrastructure, and other capabilities among various organizations.   CO1   PO1
    i.   Off-site private cloud   ii.   Community cloud
    iii. Hybrid cloud   iv.   On-site private cloud

c. Which kind of virtualization helps a user to have remote access to an application from a server.   CO2   PO1
    i.   Storage   ii.   Application
    iii. Desktop   iv.   Network

d. On which one of the following hypervisor runs directly on the underlying host system, it is also known as_____?   CO2   PO1
    i.   Bare metal hypervisor   ii.   Hosted Hypervisor
    iii. Native Hypervisor   iv.   Both A and C

e. Cloud service agreements are usually set up by _____   CO3   PO1
    i.   Client   ii.   Company
    iii. Cloud service provider   iv.   None of the these

f. Multi-level SLA is of _____ types   CO3   PO1
    i.   3   ii.   2
    iii. 4   iv.   5

g. Which happens first authorization or authentication?   CO4   PO1
    i.   Authorization   ii.   Authentication
    iii. Authorization and authentication are same   iv.   None of the mentioned

h. What focuses on preventing illicit transfer of data outside organizational boundaries?   CO4   PO1
    i.   Data security   ii.   Data loss prevention
    iii. Authenticity   iv.   System check

i. _____ of information means, only authorised users are capable of accessing the information.   CO1   PO1
    i.   Confidentiality   ii.   Integrity
    iii. Non-repudiation   iv.   Availability

j. Which of the following is the main purpose of ACL   CO1   PO1
    i.   Enhance network performance   ii.   Traffic control
    iii. Authenticate the system   iv.   All of the above

PART – B: (Short Answer Questions)   (2 x 10 = 20 Marks)

Q.2. Answer **ALL** questions   CO#   PO#

a. Mention any two limitations of Community cloud.   CO1   PO1
b. What is meant by Pay –as – you - go model in cloud?   CO1   PO1

		CO#	PO#
c.	Differentiate between hot migration and cold migration technique.	CO2	PO2
d.	Explain bare-metal hypervisor with a neat diagram.	CO2	PO1
e.	Define Multi-level SLA and explain its types in short.	CO3	PO1
f.	Differentiate between block storage and file storage.	CO4	PO
g.	Write a short note on crypto jacking.	CO4	PO1
h.	How to ensure that your hypervisor is secure or not?	CO2	PO1
i.	What is meant by Data breach?	CO1	PO1
j.	Mention two benefits of utility computing	CO2	PO2

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

Answer **ALL** questions

		Marks	CO#	PO#
3.a.	What is service oriented architecture? Discuss the benefits of it.	5	CO1	PO1
b.	Differentiate in between Grid Computing and Cluster computing.	5	CO1	PO1
c.	Write Short notes on "Evolution of cloud computing".	5	CO1	PO1
d.	What is distributed computing? How does it work? Explain the key benefits of distributed computing.	5	CO1	PO2
4.a.	Differentiate between Type -1 and Type-2 Hypervisor with diagrams.	5	CO2	PO1
b.	Write a short note on "Network virtualization".	5	CO1	PO1

(OR)

		Marks	CO#	PO#
c.	What do you mean by server provisioning? Write the important characteristics of Virtualization.	5	CO2	PO2
d	Explain desktop virtualization with a neat diagram.	5	CO2	PO1
5.a.	Explain various kind of issues in cloud computing.	5	CO1	PO2
b.	Dicsus the characteristics and Use cases of Cloud business model.	5	CO2	PO2

(OR)

		Marks	CO#	PO#
c.	Explain the advantage and drawbacks of cloud business model.	5	CO3	PO2
d.	Write a short note on "Multi level SLA ".	5	CO3	PO1
6.a	What is Data loss prevention? Write its causes and prevention.	5	CO4	PO1
b.	Write a short note on " DOS attack".	5	CO4	PO2

(OR)

		Marks	CO#	PO#
c.	Explain the steps to secure the cloud storage.	5	CO4	PO1
d.	Write a short note on ACL. Explain how ACL works.	5	CO4	PO2

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