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SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION : DECEMBER- 2024/JANUARY-2025

SEMESTER - VI

Sub: Cloud Computing/ Cloud Technology / Virtualization and Cloud Technology

(BCA –640-18/BCA-640-20/BCA-CS-640-20)

Date : 01/01/2025

Total Marks : 60

Time: 10.00 am To 12.30 pm

Instructions:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagrams wherever necessary.

Q.1. Fill in the blanks.

(05)

1. _____ is Cloud Platform by Amazon
 - a) AWS
 - b) Azure
 - c) Cloudera
 - d) All of the mentioned
2. _____ has many features of what is now called Cloud Computing.
 - a) Internet
 - b) Software
 - c) Web service
 - d) All of the above
3. SaaS means _____.
 - a) Storage as a service
 - b) Server as a service
 - c) Software as a service
 - d) None of the above
4. _____ is based on utility computing.
 - a) Grid computing model
 - b) SOA model
 - c) Virtual isolation model
 - d) Pay-per-use model
5. _____ is an essential concept related to Cloud
 - a) Reliability
 - b) Abstraction
 - c) Productivity
 - d) All of the mentioned

Q.2. State True/False

(05)

1. NAS is Network Attached Storage.
2. Cloud computing networks are designed to support only private or hybrid clouds.
3. IaaS is known as IT as a service.
4. Cloud computing resources can be provisioned on demand by the users.
5. Cloud computing provides limited space to store information.

Q.3. Answer the following. (Solve any 5) (10)

1. Define hypervisor.
2. What are different cloud computing operations?
3. Define PaaS.
4. List all deployment models defined by NIST.
5. List any five cloud computing applications.
6. Define Elasticity.

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Explain IDaaS in detail.
2. Explain all the benefits of cloud computing technology.
3. What is managed and unmanaged cloud?
4. Describe challenges in cloud computing.
5. Explain the impact of cloud computing in health sector.
6. Explain SOA with diagram.
7. Describe RPO in cloud computing.

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. Explain architecture of cloud computing alongwith suitable diagram
 2. What is the need of virtualization? Explain Server virtualization, Application virtualization, Presentation Virtualization
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