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SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION : JUNE - 2025

SEMESTER– VI

Sub: Cloud Computing / Cloud Technology/Virtualization and Cloud Technology
(BCA –640-18/BCA-640-20/BCA-CS-640-20)

Date : 03/06/2025

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.
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Q.1. Fill in the blanks.

(05)

1. Utility computing is based on _____.
a) Grid computing model b) SOA model
c) Virtual isolation model d) Pay-per-use model
2. _____ is full form of IaaS.
a) Storage As A service b) Platform-as-a-service
c) Infrastructure As a Service d) Information As a Service
3. _____ of the following is Cloud Platform by Amazon
a) AWS b) Azure
c) Cloudera d) All of the mentioned
4. Communication between services is largely done using the _____.
a) REST b) RESTful
c) SOAP d) All of the above
5. _____ is the full form of SaaS
a) Storage as a service b) Server as a service
c) Software as a service d) None of the above

Q.2. True or False.

(05)

1. Cloud computing provides limited space to store information.
2. The biggest risk about cloud computing is data security and privacy.
3. IaaS is known as IT as a service.
4. NAS is Network Attached Server.
5. Cloud computing resources can be provisioned on demand by the users.

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

1. List all deployment models defined by NIST.
2. Define PaaS.
3. Define hypervisor.
4. Define Cloud Computing.
5. Define Elasticity.
6. Define pay per use model.
7. List any five cloud computing applications.

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

1. What is managed and unmanaged cloud?
2. Explain full virtualization with example.
3. Explain NAS architecture.
4. Explain IDaaS in detail.
5. Explain all the benefits of cloud computing technology.
6. Explain the impact of cloud computing in health sector.
7. Explain SOA with diagram.

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

1. Explain architecture of cloud computing along with suitable diagram.
 2. Briefly describe the challenges in cloud technology.
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