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SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : MAY - 2024
SEMESTER – VI

Sub: Cloud Computing / Cloud Technology/Virtualisation and Cloud Technology
(BCA – 640-18/BCA-640-20/BCA-CS-640-20/BCA-646)

Date : 22/05/2024	**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. Communication between services is largely done using the _____.
   a) REST   b) RESTful
   c) SOAP   d) All of the above

2. _____ has many features of what is now called Cloud Computing.
   a) Internet   b) Software
   c) Web service   d) All of the above

3. _____ 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

4. Utility computing is based on _____
   a) Grid computing model   b) SOA model
   c) Virtual isolation model   d) Pay-per-use model

5. Full form of SaaS is _____.
   a) Storage as a service   b) Server as a service
   c) Software as a service   d) None of the above

Q.2.   State True/False.   **(05)**

1. Cloud computing provides limited space to store information.
2. The biggest risk about cloud computing is data security and privacy.
3. NAS is Network Attached Storage.
4. Cloud computing networks are designed to support only private or hybrid clouds.
5. IaaS is known as IT as a service.

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

1. Define Cloud Computing

2. What are different cloud computing operations?

3. List any five cloud computing applications.

4. Define Elasticity.

5. Define PaaS.

6. List all deployment models defined by NIST.

7. Define pay per use model.

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

1. Difference between file storage and block storage devices

2. Explain all the benefits of cloud computing technology.

3. What is managed and unmanaged cloud?

4. Explain NAS architecture.

5. What is virtualization and what are its benefits?

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. Briefly describe the challenges in cloud technology.

2. Explain architecture of cloud computing alongwith suitable diagram

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