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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)/ SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : DECEMBER - 2023
SEMESTER - VI

Sub: Cloud Computing / Cloud Technology / Virtualisation and Cloud Technology

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

Date : 26/12/2023　　　　**Total Marks : 60**　　　　**Time: 2.00 pm To 4.30 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 an essential concept related to Cloud.
   - a) Reliability
   - b) Abstraction
   - c) Productivity
   - d) All of the mentioned

2.　……….. refers to the user's part of the Cloud Computing system.
   - a) Backend
   - b) Management
   - c) Infrastructure
   - d) Frontend

3.　……….. is Cloud Platform by Amazon.
   - a) AWS
   - b) Azure
   - c) Cloudera
   - d) All of the mentioned

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

5.　……….. is the correct 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.　**State True/False.**　　　　　　　　　　　　　　　　**(05)**

1. IaaS is known as IT as a service.

2. Cloud computing resources can be provisioned on demand by the users.

3. The biggest risk about cloud computing is data security and privacy.

4. Cloud computing provides limited space to store information.

5. Hybrid cloud is a combination of only two clouds.

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

1. List all deployment models defined by NIST.

2. Define pay per use model.

3. Define hypervisor.

4. What are different cloud computing operations?

5. List any five cloud computing applications.

6. Define Elasticity.

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

1. Difference between file storage and block storage devices

2. What is managed and unmanaged cloud?

3. Explain full virtualization with example.

4. Describe challenges in cloud computing.

5. Explain IDaaS in detail.

6. Explain all the benefits of cloud computing technology.

7. Describe RPO in cloud computing.

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

1. Describe SOA in cloud computing.

2. Explain architecture of cloud computing alongwith suitable diagram

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