



GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Seventh Semester – Regular) Examinations, November – 2023

BPECS7013 – Cloud Security

(CSE)

Time: 3 hrs

Maximum: 70 Marks

Answer ALL Questions

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. Which type of cloud deployment model offers the highest level of control and security?	CO1	PO1
(i) Public Cloud		
(ii) Private Cloud		
(iii) Hybrid Cloud		
(iv) Multi-Cloud		
b. Safeguarding the data from unauthorized modification is	CO1	PO1
(i) Confidentiality		
(ii) Modification		
(iii) Integrity		
(iv) Availability		
c. Which of the following service provider provides the least amount of built in security?	CO2	PO1
(i) SAAS		
(ii) PASS		
(iii) IAAS		
(iv) All of the mentioned		
d. Total steps of deployment stage in cloud computing are?	CO2	PO1
(v) 3		
(vi) 4		
(vii) 5		
(viii) 6		
e. Identify among the components which are known as a hypervisor.	CO3	PO1
(i) VMC		
(ii) VC		
(iii) VMM		
(iv) All of the above		
f. Data leakage is popularly known as _____.	CO3	PO1
(i) data theft		
(ii) data crack		
(iii) low and slow data theft		
(iv) low data theft		
g. Which has a key length of 128 bits?	CO3	PO1
(i) IDEA		
(ii) Triple-DES		
(iii) Both A and B		
(iv) RSA		
h. _____ is the process of retaining or keeping of data at a secure place for long-term storage.	CO4	PO1
(i) Data archiving		
(ii) Archival Storage		
(iii) Disposal of Data		
(iv) Backup		
i. Which of the following is data security consideration?	CO4	PO1
(i) Backups		
(ii) Archival Storage		
(iii) Disposal of Data		
(iv) All of the above		
j. What are the different ways to classify IDS?	CO1	PO1
(i) Zone based		
(ii) Host & Network based		
(iii) Network & Zone based		
(iv) Level based		

PART – B: (Short Answer Questions)

(2 x 10 = 20 Marks)

Q.2. Answer ALL questions

	[CO#]	[PO#]
a. Differentiate between authentication and authorization.	CO1	PO1
b. What is Malicious Insider?	CO1	PO1
c. Focus on two basic characteristics of cloud computing.	CO2	PO2
d. Differentiate between IAAS and PAAS.	CO2	PO2

e. What are the resources that IAAS gives to cloud customers?	CO3	PO1
f. Differentiate between stream ciphers and block cipher.	CO3	PO2
g. Define integrity and non-repudiation.	CO4	PO1
h. What is the role of timestamping in digital signature?	CO4	PO1
i. Define Hyper jacking.	CO1	PO1
j. What is server virtualization?	CO2	PO1

PART – C: (Long Answer Questions)

(10 x 4 = 40 Marks)

Answer ALL questions

	Marks	[CO#]	[PO#]
3. a. What is CIA triad? Explain the common data security risks.	5	CO1	PO1
b. How to secure the virtual servers?	5	CO1	PO1
(OR)			
c. How to secure one public cloud infrastructure? How to establish one encrypt communication system in public or private network of server?	5	CO1	PO1
d. Explain the security issues or challenges in cloud computing.	5	CO1	PO2
4. a. What is storage as a service? What are the advantages of cloud storage? Provide some examples of cloud storage provider.	5	CO2	PO1
b. What do you mean by hybrid cloud? Write down the advantages and limitations of hybrid cloud.	5	CO2	PO1
(OR)			
c. Write a short note on “Amazon s3 “.	5	CO2	PO2
d. Write down the cloud deployment model and its types in details.	5	CO2	PO1
5. a. What are the rules for ACL used in cloud? Write down and explain the types of ACL.	5	CO3	PO1
b. How secure is elliptic curve cryptography? What is elliptic curve cryptography used for?	5	CO3	PO2
(OR)			
c. What is RSA algorithm? How does it work in cryptography?	5	CO3	PO1
d. What are the different modes of operation in block cipher?	5	CO3	PO1
6. a. How does STAAS work? Explain the types of STAAS solutions.	5	CO4	PO1
b. What is log management? How log management tools are used?	5	CO4	PO1
(OR)			
c. How the data on the cloud be secured by Cryptography?	5	CO4	PO1
d. What do you mean by Public cloud? Write down the advantages and limitations of public cloud.	5	CO4	PO1

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