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END SEMESTER EXAMINATION, JUNE- 2025
B. Tech. (CSE) Semester - VIII

Course Name: Cloud Computing**Course Code: ECS485**

Time allotted: 03 Hours

Max. Marks: 100

Note: Read all the instructions carefully.

Q.1. Attempt all.**(10×2=20)**

QN	Questions	CO	PO
a.	What is the full form of AWS?	1	R
b.	What is the full form of IaaS?	1	R
c.	What is the full form of PaaS?	1	R
d.	What is the full form of SaaS?	1	R
e.	What is the name of the Cloud Platform offered by Microsoft?	2	R
f.	What is the name of the Cloud Platform offered by Google?	2	R
g.	Name three Cloud Products you have used on your mobile?	3	R
h.	What is the full form of PUC?	3	R
i.	What is the full form of CUC?	2	R
j.	Name three e-commerce companies?	2	R

Q.2. Short notes / Short Answer Type (Attempt any five out of Seven)**(5×4=20)**

QN	Questions	CO	PO
a.	How does the Internet work? Please describe with diagrams in as much detail as possible...	1	R,U
b.	What does the IaaS Layer in Cloud Computing do? Please describe in as much detail as possible...	3	U
c.	What does the PaaS Layer in Cloud Computing do? Please describe in as much detail as possible...	3	U
d.	What does the SaaS Layer in Cloud Computing do? Please describe in as much detail as possible...	3	U
e.	Name three top products offered by AWS - Please describe in as much detail as possible...	3	U
f.	What are the top three benefits of adopting a Cloud Computing Model? How does it help companies?	5	U
g.	Name three cloud based applications You use every day and what do they do in terms of features and functions?	4	U,A

P.T.O./-

Q.3. Structured Question (Attempt any three out of four)

(3×10)

QN	Questions	CO	PO
a.	What is a Data Center and how are they connected through the Internet? What is the importance of a Data Center in the Cloud? Please explain with examples / diagram / details as much as possible of how the Cloud is connected through the Internet...	3	
b.	If You were to create your own cloud based product, what would it be? What would it do and why would someone use it?	3	U.A
c.	Please explain what is Virtualization, how does it work and what are it's key benefits – please explain with examples / diagram / details as much as possible...	2	U.A
d.	What is e-Commerce or Commerce Cloud? How does it work? Please explain with examples / diagram / details as much as possible...	5	U.A

Q.4. Long Answer / Essay type (Attempt any two out of three)

(2×15=30)

QN	Questions	CO	PO
a.	What is a Product? What are the three primary reasons a product is created? What are the key stages of a Product Lifecycle? Using a diagram please draw and explain either the Google Design Sprint OR the IBM Loop Framework. Please explain with examples / diagram / details as much as possible...	3	U.A
b.	According to the Cloud Computing Adoption Case Study for Universities, what is a PUC, CUC Model and Hybrid Model? Please describe the Services Application of the proposed PUC, CUC and Hybrid Model Technical Architecture of the Framework with examples / diagram / details as much as possible...	4	U.A
c.	What is a Cloud Exit Strategy? Who needs to have a Cloud Exit Strategy? Why is it important to have a plan? Please list the Best Practices to include in a Cloud Exit Plan...	5	U.A

Roll No. **S R H U**

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END SEMESTER EXAMINATION, JUNE- 2025

B. Tech. (CSE) Semester - VIII

Course Name: Introduction to Cyber Security

Course Code: ECS484

Time allotted: 03 Hours

Max. Marks: 100

Note: Read all the instructions carefully.

Q.1. Attempt all.

(10×2=20)

	CO	PO
a. Explain term end point security	1	1,2,5,12
b. Write full form PCIDSS	1	1,2,5,12
c. Define Trojan.	2	1,2,5,12
d. Write full form DOS	2	1,2,5,12
e. Write full form IDS.	3	1,2,5,12
f. What is snort?	3	1,2,5,12
g. How can we avoid plagiarism?	4	1,2,5,12
h. What is Phishing?	4	1,2,5,12
i. List any two forensic tools	5	1,2,5,12
j. Is IT ACT 2000 is sufficient to handle cybercrime? (Yes/No)	5	1,2,5,12

Q.2. Short notes / Short Answer Type (Attempt any five out of Seven)

(5×4=20)

	CO	PO
a. What are some effective strategies for protecting sensitive data from cyber threats?	1	1,2,5,12
b. How can organizations defend against Cyber Security?	1	1,2,5,12
c. What are the primary motivations behind DDOS?	2	1,2,5,12
d. Explain the role of Linux firewall.	3	1,2,5,12
e. Elaborate the role of SNORT with flow diagram.	3	1,2,5,12
f. What is the primary function of Phishing?	4	1,2,5,12
g. Elaborate the working of HIPPA	5	1,2,5,12

Q.3. Structured Question (Attempt any three out of four)

(3×10=30)

	CO	PO
a. (i) What are some common types of cyber-attacks, and what measures can individuals take to protect themselves against them? (ii) What are the primary methods hackers use to gain unauthorized access to computer systems?	1	1,2,5,12
b. (i) What distinguishes a white hat hacker from a black hat hacker in cybersecurity? (ii) What are the common types of email-related cybercrimes, and what measures can individuals and organizations take to protect themselves against such threats.	2	1,2,5,12
c. (i) What are some key intellectual property rights (IPR) considerations relevant to cybersecurity practices? (ii) How can financial institutions mitigate the risk of phishing attacks targeting their customers' personal information and financial data?	4	1,2,5,12
d. What steps are involved in conducting a cyber-forensic investigation in the kingdom of cybersecurity?	5	1,2,5,12

Q.4. Long Answer / Essay type (Attempt any two out of three)

(2×15=30)

	CO	PO
a. Explain the role of Firewalls and Intrusion Detection Systems (IDS) in bolstering cybersecurity. Additionally, discuss the types of Firewalls and their respective functionalities, highlighting their strengths and weaknesses in protecting against cyber threats.	3	1,2,5,12
b. Describe the key differences between malware, trojans, and worms in the context of cybersecurity. How do each of these types of malicious software operate, and what are some common methods used to mitigate their impact? Additionally, discuss the role of email crimes in spreading malware and the strategies that organizations can employ to protect against email-based threats.	2	1,2,5,12
c. Explain the concept of phishing in the context of banking fraud and discuss some effective strategies that financial institutions can implement to mitigate the risks associated with it. Additionally, outline the role of cybersecurity measures in safeguarding customer data and preventing unauthorized access to sensitive financial information.	5	1,2,5,12

END SEMESTER EXAMINATION, JUNE- 2025

B. Tech. (CSE) Semester - VIII

Course Name: Entrepreneurship Development

Course Code: OCS483

Time allotted: 03 Hours

Max. Marks: 100

Note: Read all the instructions carefully.

Q.1 VERY SHORT ANSWER QUESTIONS (write short note on following topics)– Attempt All.
(2x10 = 20 Marks)

a.	Franchising	CO1
b.	Angel investor	CO1
c.	Mentorship	CO1
d.	Equity financing	CO1
e.	Industrial location	CO1
f.	Utilization of capacity	CO1
g.	USP	CO1
h.	Incubators	CO1
i.	MSME	CO1
j.	Traits of entrepreneur	CO1

Q.2 SHORT ANSWER QUESTIONS – Attempt any Five.
(4x5 = 20 Marks)

a.	What are various myths related to entrepreneurs?	CO2
b.	Explain various forms of business ownerships and their characteristics	CO2
c.	List various reasons for failure of converting idea into product.	CO2
d.	Compare entrepreneur and manager.	CO2
e.	What are various sources of finance for an entrepreneur?	CO3
f.	How do entrepreneurship development impacts the economy of the nation?	CO5
g.	What are the roles of Incubator Cells in entrepreneurship development?	CO5

Q.3 STRUCTURED QUESTIONS – Attempt any Three.
(3x10 = 30 Marks)

a.	"Entrepreneurs are not just focused on wealth creation", so what are various approaches/theories of understanding the Entrepreneurship?	CO1
b.	What are the various operations management decision the Entrepreneur should take care of for better demand creation?	CO4
c.	Define project and explain its attributes. Which of the attributes are similar to the characteristics of start-ups?	CO3
d.	Explain marketing mix along with marketing mix for services, how entrepreneur take advantage of each component of it?	CO5

Q.4 Case Analysis/ Situation Based QUESTIONS – Attempt any Two.
(2x15 = 30 Marks)

a.	Keeping in view product life cycle, tell various stages of a newly introduced product. Explain the characteristics of each stage. Also tell the new product development for an entrepreneur.	CO5
b.	Miss. Neha has an idea for a unique AI application for Blind people of converting images and text into voiceover. Explain how should she perform the feasibility analysis of her idea?	CO1
c.	Two graduates from SRHU are planning to implement their idea for a unique android application for tourist which will provide detail weather reports and current situation of most visited places in Uttarakhand. Explain what are various ways of sourcing such business idea?	CO3