Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – December 2025

Date: 18 – 12- 2025 **Time:** 01:00pm – 04:00pm

School: SOCSE	**Program:** B.Tech CSD	
Course Code: CSD3401	**Course Name:** Business Continuity and Risk Analysis for Data Science	
Semester: VII	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**26**	**26**	**24**	**24**	**-**

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. **10Q x 2M=20M**

1.	Define BCP.	**2 Marks**	**L1**	**CO1**
2.	Expand CIRP and COOP	**2 Marks**	**L1**	**CO1**
3.	List the goals of BCP.	**2 Marks**	**L1**	**CO1**
4.	Name any four tools and techniques used in risk management.	**2 Marks**	**L1**	**CO2**
5.	What is the use of Business Impact Analysis?	**2 Marks**	**L1**	**CO2**
6.	List the different types of risks.	**2 Marks**	**L1**	**CO2**
7.	What is the use of multi factor authentication?	**2 Marks**	**L1**	**CO3**
8.	Expand VPN and MITM	**2 Marks**	**L1**	**CO3**
9.	List the objectives of business recovery planning.	**2 Marks**	**L1**	**CO4**
10.	What is the use of table top test?	**2 Marks**	**L1**	**CO4**

Part B

Answer the Questions. **Total Marks 80M**

11.	**a.**	Organizations often prioritize technology recovery in BCP but overlook people, processes, and facilities. Evaluate how including all components holistically ensures true resilience.	**10 Marks**	**L3**	**CO1**
	b.	Assume you are the business continuity manager of a retail organization. Draw the ISO 22301 BCP diagram.	**10 Marks**	**L3**	**CO1**
		Or			
12.	**a.**	Both BCP and SDLC involve structured processes, planning, and evaluation, yet their objectives differ significantly. compare BCP and SDLC and also List the goals of BCP with diagram.	**10 Marks**	**L3**	**CO1**
	b.	Different BCP organizational structures define roles and responsibilities differently. Critically analyze how the choice of a particular BCP organizational structure can impact the effectiveness of business continuity during a major disruption. [ANY 4 Structure].	**10 Marks**	**L3**	**CO1**

13.	**a.**	Assume you are the risk manager of a mid-sized IT firm. Explain step-by-step how you would implement a risk management process.	**10 Marks**	**L3**	**CO2**
	b.	A software development project has identified several potential security vulnerabilities that could lead to data breaches. The project team has assessed the likelihood and potential impact of each vulnerability. Calculate the risk exposure for each vulnerability.	**10 Marks**	**L3**	**CO2**

Vulnerability	Likelihood	Impact(Loss)	Risk Exposure
Vulnerability1	0.10	$150000	
Vulnerability2	0.25	$200000	
Vulnerability3	0.18	$500000	
Vulnerability4	0.36	$400000	
Vulnerability5	0.57	$970000	
Vulnerability6	0.27	$840000	
Vulnerability7	0.50	$340000	
Vulnerability8	0.28	$120000	
Vulnerability9	0.56	$250000	
Vulnerability10	0.87	$650000	

		Or			
14.	**a.**	In Business Impact Analysis, identifying key business processes is often influenced by organizational perception rather than	**10 Marks**	**L3**	**CO2**

		objective data. Discuss how cognitive bias, departmental silos, and lack of cross-functional communication can lead to incorrect prioritization of critical processes. Suggest methods to overcome these issues."			
	b.	You have been assigned to create a BIA report for a mid-sized IT firm. Explain, with justification, how you would identify critical business processes, determine their interdependencies, and prioritize recovery objectives. Support your answer with a realistic example.	**10 Marks**	**L3**	**CO2**

15.	**a.**	Evaluate how a combination of technical, administrative, and physical mitigation strategies can be integrated to build a resilient information security framework in a modern organization.	**20 Marks**	**L3**	**CO3**
		Or			
16.	**a.**	Critically analyze how emerging technologies are re reshaping the preventative strategies used by Information Security Managers.	**20 Marks**	**L3**	**CO3**

17.	**a.**	Illustrate the different steps in the business recovery planning process	**20 Marks**	**L3**	**CO4**
		Or			
18.	**a.**	Analyze the relationship between Business Recovery Testing and Security Testing in maintaining organizational resilience.	**20 Marks**	**L3**	**CO4**