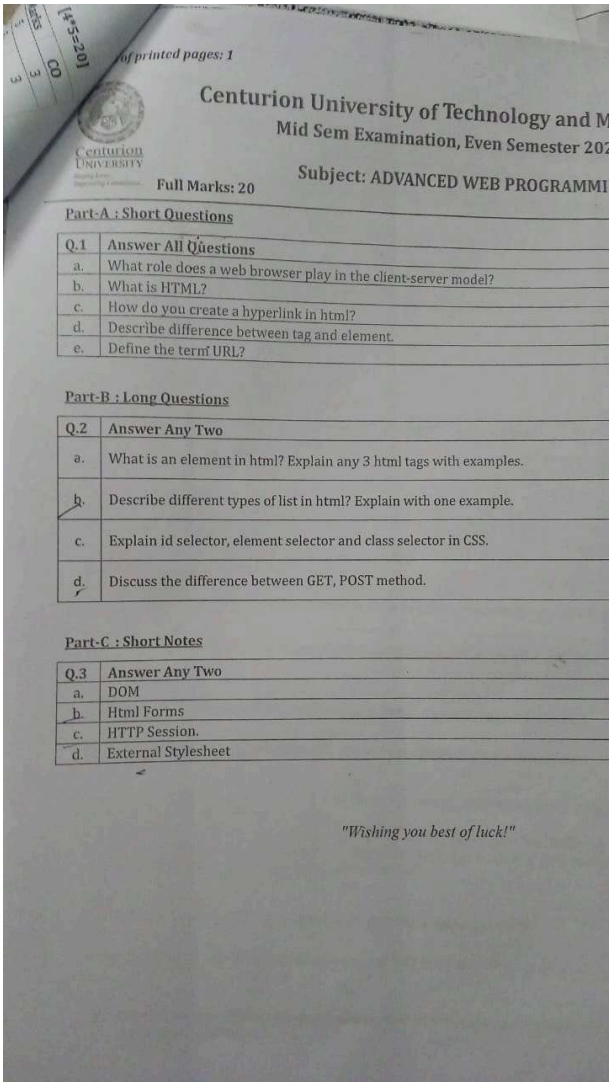


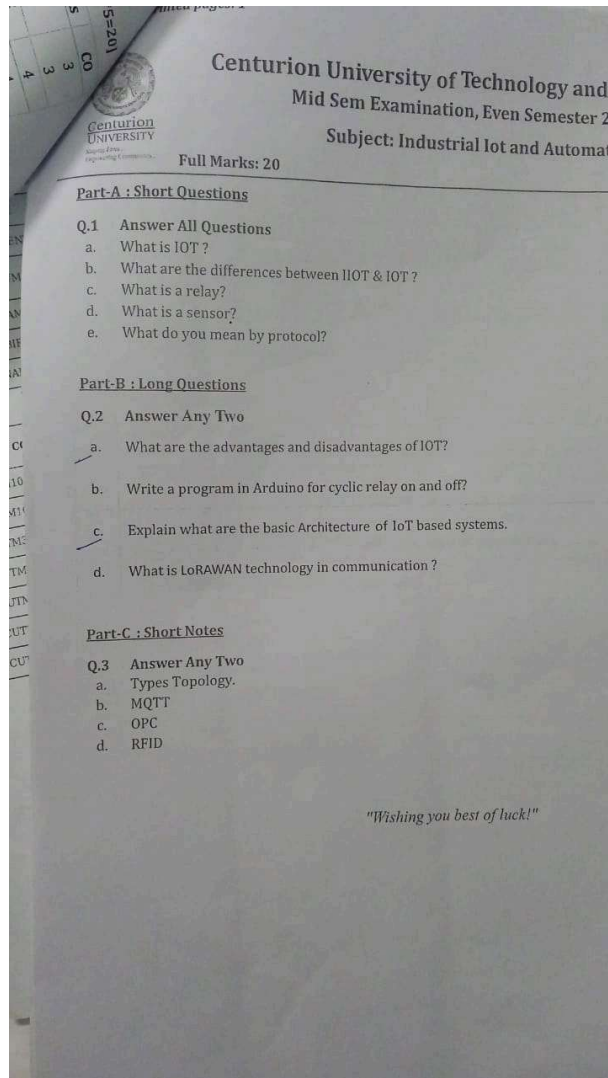


Sundram  
26/3/2025 at 8:08 pm



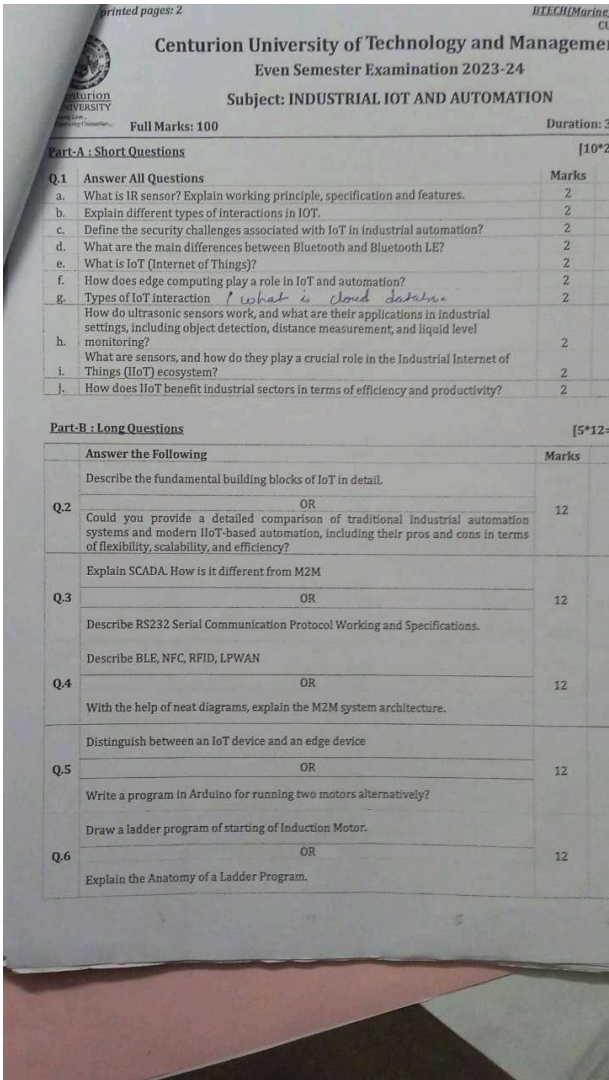
**Sundram**

26/3/2025 at 8:08 pm





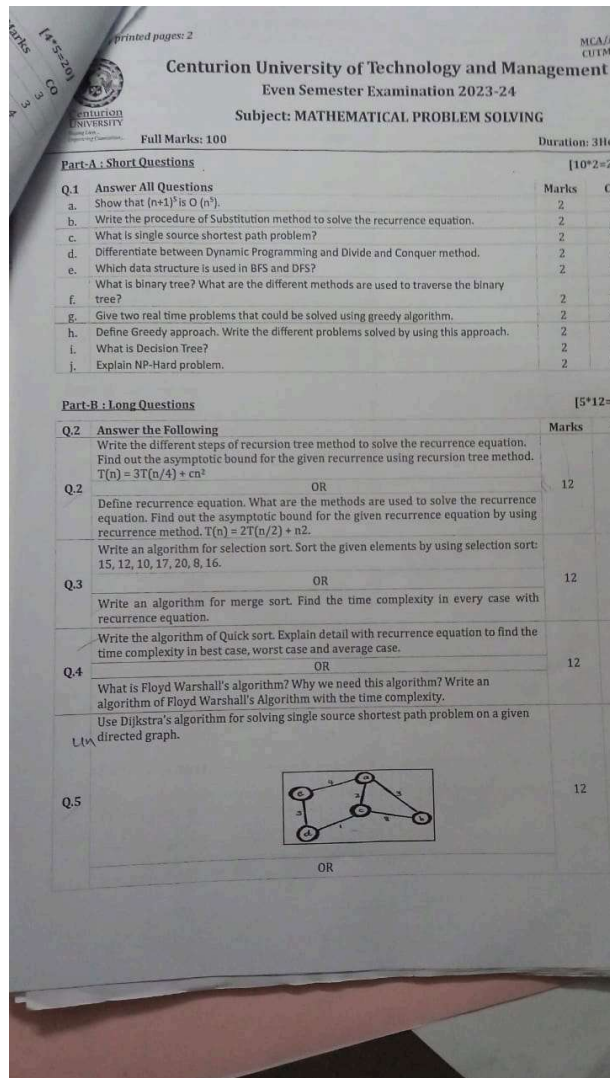
Sundram  
26/3/2025 at 8:08 pm





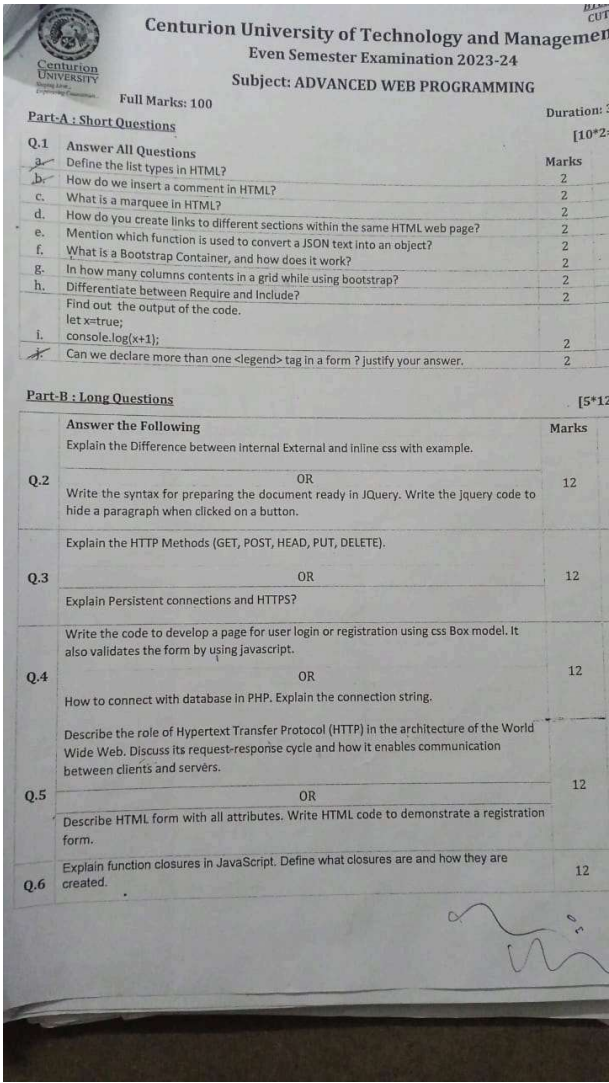
Sundram

26/3/2025 at 8:08 pm





Sundram  
26/3/2025 at 8:08 pm





Sundram

26/3/2025 at 8:08 pm



Total no of printed pages: 2

B.Tech  
CUTM1034

**Centurion University of Technology and Management**  
Odd Semester Examination 2024-25  
Subject: DATABASE CLUSTER ADMINISTRATION AND SECURITY

Full Marks: 100      Duration: 3 Hours

**Part-A : Short Questions** [10\*2=20]

Q.1	Answer All Questions	Marks
a.	What is tightly coupled architecture and loosely coupled architecture?	2
b.	Define Symmetric Key Encryption?	2
c.	What is WMI and what are its functions?	2
d.	What are different types of Vulnerabilities?	2
e.	Explain best practices for database security?	2
	By default maximum size limit of cluster in NTFS is ____.	
	1 KB	
	2 KB	
	4 KB	2
f.	8 KB	2
g.	What is Database Management System?	2
h.	What is the requirement of database clustering?	2
	_____ is the process of combining more than one servers or instances connecting a single database.	
	Database clustering	
	Database deployment	
	Database security	2
i.	Database administration	
	Hazlecast cluster will run both _____ & _____ workloads.	
	Data deployment and data maintenance	
	Data encryption and data decryption	
	Data processing and data storage	2
j.	Data authentication and data validation	

**Part-B : Long Questions** [5\*12=60]

	Answer the Following	Marks
	a) What is database cluster and its architecture? Explain NTFS briefly	2+6+4
	OR	
Q.2	b) What is cluster size what is the importance of defining a cluster size? Explain different cluster partitioning?	3+4+5
	a) What is SSL/TLS? Explain SSL/TLS succinctly. What is the difference between data in motion and data at rest, shown with an example?	2+5+5
	OR	
Q.3	b) How to Add and Delete/Remove a from a cluster explain briefly?	6+6
	b) How to Add and Delete/Remove a from a cluster explain briefly?	6+6
Q.4	a) How to Add and Delete/Remove a from a cluster explain briefly?	
	OR	
	What is Oracle browser explain e - chatting	