

b.

DSDV TORA

Compare AODV routing algorithm with DSR

				Sub	ject	Coc	le: k	CA	.051	
Roll No:										

Printed Page: 1 of 1

MCA (SEM IV) THEORY EXAMINATION 2023-24 **MOBILE COMPUTING**

	WODILE COM OTING		
IME:	3 HRS	M.MAR	KS: 100
Note:	1. Attempt all Sections. If require any missing data; then choose suitably. SECTION A		
1.		$2 \times 10 = 20$)
a.	Describe "Ideally shape of a cell is Hexagonal".		02
b.	Tabulate the features of wired Networks and Mobile networks.		02
c.	Elaborate Hand Off.		02
d.	Explain HLR and VLR.		02
e.	Discuss data dissemination with reference to mobile computing?		02
f.	Discuss Disconnected operation in CODA file system.		02
g.	List four properties of transaction.		02
h.	Explain eavesdropping attack against mobile agent in mobile computing.		02
i.	Explain Ad-hoc network.		02
j.	List the QoS parameters in MANET.		02
J.	SECTION B		
2.		$3 \times 10 = 30$	
a.	Explain frequency reuse and frequency reuse distance with suitable diagram.	A TO CO	10
b.	Explain the GSM architecture with the help of diagram.		10
c.	Explain the process of disconnected operation performed in CODA.	0	10
d.	Discuss fault tolerance in mobile computing.	Ω	10
e.	Discuss reactive, proactive and hybrid routing protocols on basis of vital parameter	.87	10
С.	SECTION C	9.	10
3.		x 10 = 10	
a.	Discuss handover schemes with suitable diagram in reference to:		10
	Intra-cell handover		
	Inter-cell, intra-BSC handover		
	Inter-BSC, intra-MSC handover		
b.	Inter MSC handover: Discuss GSM architecture with suitable diagram in reference to:		10
U.	The Mobile Station (MS)		10
	The Base Station Subsystem (BSS)		
	The Network Switching Subsystem (NSS)		
	The Operation Support Subsystem (OSS)		
4		$1 \times 10 = 10$	
a.	Discuss I-TCP, and M-TCP with suitable diagram.		10
b.	Discuss registration process in Mobile IP with suitable diagram.		10
5.		$1 \times 10 = 10$	10
a.	Discuss Data-delivery mechanisms with its types with suitable diagrams.		10
b.	Describe data management in Mobile Computing with suitable example.		10
6.		$1 \times 10 = 10$	10
a.	Illustrate the mobile agent and security issues in mobile computing.		10
b.	Illustrate data replication in mobile environment.	1 10 1	10
7.		$1 \times 10 = 10$	10
a.	Examine the following MANET Protocols:		10

10