MASTER OF COMPUTER APPLICATIONS (MCA-NEW)

Term-End Examination

June, 2025

MCS-231: MOBILE COMPUTING

Time: 3 Hours Maximum Marks: 100

Note: Question No. 1 is compulsory and carries
40 marks. Attempt any three questions
from the rest.

- (a) Discuss the design considerations for mobile computing with a focus on operating system considerations and their impact.
 - (b) Define WDM. Describe its advantages, disadvantages along with applications.

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(c) What is Wireless Application Protocol(WAP) ? How does it work ? DiscussWAP Protocol stack.

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(d)	With reference to Smart Client
	Architecture, explain the following
	approaches:
	(i) Thick Client Architecture
	(ii) Thin Client Architecture
(a)	Describe the working of three-way
	handshake in TCP-protocol and give its
	key features.
(b)	Draw the diagram to depict the process
	of End-to-End connection in Mobile
	TCP. Give advantages of Mobile TCP.
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(2)	
(a)	•
	store methods, briefly.
(b)	Define virtual network. Explain the
	types of virtual network and give its
	advantages. 10
(a)	Explain three-tier architecture for
	mobile computing.
(b)	Explain the types of synchronization
	methods between mobile client and

remote server.

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- 5. (a) Compare and contrast the features and advantages of FDM and TDM in the context to mobile communication. 10
 - (b) Elaborate the method used for dynamic grouping of mobile devices to improve performance and to optimize the energy consumption.

