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Code No: 824AZ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, April/May - 2019 MOBILE COMPUTING

Time: 3hrs

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

	5 ×	5 Marks = 25
1.a)	Explain the 3-tier architecture for Mobile Computing.	[5]
b)	Brief about NSS component of GSM protocol.	[5]
c)	Distinguish the adhoc wireless network from the one with infrastructure.	[5]
d)	Write about CLDC configuration of J2ME.	[5]
e)	Differentiate Lossy and lossless compressions of Multimedia.	[5]
	PART - B 5 × 2	10 Marks = 50
2.a)	Explain how Mobile IP solves the IP addressing issues of Mobile environ	nment?
b)	Write about applications of Mobile Computing.	[5+5]
	OR	
3.a)	Based on the environment mobility characteristics, mention the difference	fferent Mobile

3.a)	Based on the environment mobility characteristics,	mention	the	different	Mobile
	Computing functions.				
b)	Mention the salient features of IPv6 protocol.				[5+5]

4.	With a neat sketch write about the GSM system architecture.	[10]
	OR	

5. Write about SMS value-added Services Architecture with the help of a diagram. [10]

6.a)	Write about IEEE 802.11 WLAN architecture.	
b)	Write about any one IEEE 802.11 Physical layer protocol.	[5+5]
	OR	

- 7.a) Explain how mobility is dealt with in Wireless LAN?b) Write about WLAN Security.
- 8.a) Giving the hierarchy, write about UI elements in MIDP of J2ME.
 b) Brief about the H.323 framework for Voice Over IP (VOIP). [5+5] OR
 9. With a neat sketch, write about the Windows CE architecture. [10]
- 10.a) Write about Audio and Video Coder and Decoders (CODECs).
 b) Write about 3GPP security architecture. [5+5]
- 11. Through the architectural diagram, elaborate about IP Multimedia Subsystems (IMS). [10]

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Max.Marks:75

[5+5]