

858,DR.KALAM POLYTECHNIC COLLEGE AVANAM.

DEPARTMENT OF COMPUTER SCIENCE

25262, MOBILE COMPUTING

QUESTION BANK

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UNIT-1		
PART-A		
1.	List out the types of network in mobile computing?	Oct-14
2.	Define WI-FI and Bluetooth?	Oct-14
3.	List out the mobile computing function?	Oct-14
4.	Define handoff?	
5.	Give any two applications of WLAN?	Apr 14, 15, 16
6.	Define cell?	
7.	Define cell splitting?	Oct-15, Apr-16
8.	List any two dimensions of multiplexing?	Apr 15,
9.	What is a geostationary satellite?	Apr 15, 16
10.	What is an ad-hoc network?	Apr-15
11.	What is Wi-Fi?	Apr-15
12.	What is mobile computing?	Oct-15
13.	Expand CDMA, FDMA, SDMA, TDMA?	Oct-15
14.	Define mobile unit?	
15.	Define cell sectoring?	
16.	Define fading?	
17.	Define forward channel?	
18.	Define reverse channel?	Apr-14
19.	What is a transceiver?	
20.	What is a mobile station?	
21.	Define simplex, half duplex, and full duplex system?	
22.	Define roamer?	Apr-14
23.	Give an example for some mobile computing devices?	
24.	List any two characteristics of a mobile computing environment.	Apr-14
25.	Give types of wireless technologies?	
26.	List any two dimensions of multiplexing.	Apr-16
27.	Define wireless LAN.	Oct-15
PART-B		
1.	Explain any two multiple access procedures?	Oct-15

2.	Explain in detail the different types of communication technologies used in mobiles?	Apr-15, 16
3.	Write about the features of Wi-Fi and Wi-Max?	Oct-15, Apr-16
4.	What is a satellite communication system? Explain briefly.	Oct-15
5.	Briefly explain the architecture and function of mobile computing?	Oct-14, 15, Apr-15, 16
6.	Explain briefly about FDMA and CDMA	Apr-16
7.	Describe any two dimensions of multiplexing?	Apr-15
8.	Give a brief comparison between infrared and radio transmission?	Apr-15
9.	Explain the application and benefits of WLAN?	
10.	Compare wired and wireless mechanisms	
11.	Explain wireline, wireless, and ad-hoc networks	

UNIT-II
PART-A

1.	What is a piconet?	Oct-15, Apr-15, 16
2.	What are two keys generated in the Bluetooth security?	Apr-15, 16
3.	What are the entities present in BSS?	Apr-15, 16
4.	Expand GPRS?	Apr 15, 16
5.	What frequency does Bluetooth operate?	Apr-14
6.	What is meant by GPRS register?	Oct-15
7.	What is the use of L2CAP in Bluetooth?	Apr-14
8.	What are the types of Bluetooth device connections?	
9.	List out the advantages of Bluetooth?	
10.	Define QoS.	Oct-15
11.	List the services of GSM.	Apr-14
12.	Define SMS.	Oct-15
13.	What is VAS?	Oct-15
14.	Define GPRS?	Oct-14
15.	List out the limitations of GPRS?	Apr 14

PART-B

1.	Explain in detail about the Bluetooth protocol architecture?	Apr-15, 16
2.	Explain SMS architecture in detail?	Apr-14, 16
3.	Describe briefly about the GSM architecture with a neat diagram?	Apr-14, 15, 16
4.	Briefly describe about the GPRS network architecture in detail?	Apr-14, 16 Oct 15
5.	Briefly explain the various strengths of SMS?	Apr-15
6.	Explain about Bluetooth security architecture with a neat diagram.	Apr 14 Oct 15
7.	Explain QoS in GPRS?	
8.	Explain briefly about GPRS network enhancement	Apr-15

UNIT-III**PART-A**

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| 1. | List any two components of WAP? | Apr-15 |
| 2. | What is WML script? | Apr-16 |
| 3. | What is meant by channel capacity? | Apr14,15,16 |
| 4. | What is CDMA 2000? | Apr-16 |
| 5. | Define channel coding | Oct -15 |
| 6. | List any two advantages of WAP. | Apr-16 |
| 7. | List any two features of WML? | Apr-15 |
| 8. | Define WML? | Oct -15 |
| 9. | What is the user agent profile. | Oct-15 |
| 10. | What is direct sequence in CDMA? | Oct-15 |
| 11. | What is the use of stack in WAP. | Apr-14 |
| 12. | What is UMTS? | Apr-14 |
| 13. | What is fixed wireless? | |
| 14. | Write down the specific application of 3G? | |
| 15. | What is congestion? | |

PART-B

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| 1. | Explain briefly about WAP push architecture? | Apr-15,16 |
| 2. | Explain the working of WSP in detail? | Apr-16 |
| 3. | What is spread spectrum technology? Explain how it work in CDMA technology? | Apr-14,16 |
| 4. | Name the different types of 3G specific applications and explain any one of them in detail? | Apr-14,16 |
| 5. | Describe the WAP protocol stack. What are the functions of different layers in the protocol stack? | Apr-15 |
| 6. | Give six functions where CDMA is different from GSM? | Apr-15 |
| 7. | Briefly explain the architecture of CDMA with a neat diagram. | Apr-15 |
| 8. | What is WAP gateway? Briefly explain its functions. | Apr-14 |
| 9. | Explain WAP and WAP network. | Oct-15 |
| 10. | Explain in detail about WTP. | Oct-15 |
| 11. | Explain channel structure related to CDMA. | Oct-15 |

UNIT-IV**PART-A**

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| 1. | What is mobile node? | Apr-14,16 |
| 2. | What is tunnelling? | Oct-14 |
| 3. | List any two advantages of snooping TCP. | Apr-14 |
| 4. | What is fast retransmit? | Apr-15,16 |
| 5. | What is use of mobile IP? | Apr-14 |
| 6. | Define routing? | Apr-15 |
| 7. | What is encapsulation? | Oct-15 |

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| 8. | What is reverse tunnelling? | Apr14,15,16 |
| 9. | What is low cost routing? | Apr-15,16 |
| 10. | Define node? | |
| 11. | Define home agent? | |
| 12. | Define foreign agent? | |
| 13. | Define home network? | |
| 14. | Define foreign network? | |
| 15. | Define correspondent network? | |
| 16. | Define link and tunnel? | |
| 17. | Define care of address? | |
| 18. | Define foreign agent COA and collocated COA? | |
| 19. | What are the types in routing? | |
| 20. | List the mobile IP terminologies | Oct-15 |
| 21. | What is congestion? | Apr-15 |
| 22. | Write about snooping TCP. | |
| 23. | What is optimization? | |
| 24. | Define SMS? | |

PART-B

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| 1. | Explain in detail about the IP packet delivery. | Oct-15 |
| 2. | Explain IPV6 in detail. | Apr-14,oct-15 |
| 3. | Explain the term congestion control in transport layer. | Apr-14 |
| 4. | Explain about tunnelling and encapsulation in mobile network layer. | Apr-14 oct-15 |
| 5. | Explain how registration in a mobile mode is done via the FA and directly with the HA. | Apr-15,16 |
| 6. | Explain slow start and fast retransmit in detail | |
| 7. | Discuss in detail about the routing types. | Apr-14,15,16 |
| 8. | Explain the indirect TCP in detail? | Apr-16 |
| 9. | Explain the role of ICMP in agent advertisement messages? | Apr-15,16 |
| 10. | Describe the working of snooping TCP in detail and list down its advantages? | Apr-15,16 oct-15 |

UNIT-V**PART-A**

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| 1. | Explain MIM. | Apr-15,16 |
| 2. | What is mobile operating system? | |
| 3. | Define JAVA card. | Oct-15Apr-14 |
| 4. | List out the function of mobile operating system. | Oct-15 |
| 5. | Name any two wireless application languages? | Apr-15,16 |
| 6. | List any two operating system in mobile computing. | Apr-15,16 |
| 7. | Mention the use of XML. | Apr-14 |

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| 8. | Expand J2ME | Apr-14 |
| 9. | Compare palm OS ,windows and android. | |
| 10. | List any two features of 4G | Apr-14,16 |
| 11. | Define MIM. | Oct-15 |
| 12. | What is wireless application language? | Oct-15 |
| 13. | Write short note about 4G with advantages and disadvantages? | |
| 14. | Define OFDM. | |
| 15. | Define android. | |

PART-B

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| 1. | Explain briefly about emerging wireless technologies? | Apr-15,16 |
| 2. | Explain how wireless applications are created using JAVA card and J2ME. | Apr-14,15,16 |
| 3. | Explain palm OS in detail. | Apr-15,16 |
| 4. | What is enhanced message service in mobile? | Apr-15,16 |
| 5. | Explain in J2ME and JAVA card. | |
| 6. | Write notes on EMS. | Oct-15 |
| 7. | Explain the various wireless application languages | Oct-15 |
| 8. | Explain MMS. | |
| 9. | Explain briefly about 4G and its features. | Oct-15 |
| 10. | Explain briefly about android mobile operating system. | Oct-15, Apr-14 |
| 11. | Explain multimedia message service in mobile. | Apr-14 |
| 12. | Briefly explain about windows CE mobile operating system | Apr-14 |