SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF INFORMATION TECHNOLOGY

QUESTION BANK

VI SEMESTER

1908601-Mobile Communication

Regulation – 2019

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QUESTION BANK

SUBJECT   : 1908601 – Mobile Communication

SEM / YEAR: VI Sem / III Year

	UNIT I - INTRODUCTION		
	Introduction to Mobile Computing – Applications of Mobile Computing- Generations of Mobile Communication Technologies-MAC Protocols – SDMA- TDMA- FDMA- CDMA		
	PART – A		
Q. No.	Questions	BT Level	Competence
1.	Define mobile computing.	BTL1	Remember
2.	List the advantages of mobile computing.	BTL1	Remember
3.	Distinguish between mobile computing and wireless networking.	BTL4	Analyze
4.	Name the types of Mobility.	BTL1	Remember
5.	Compare infrastructure-based network and infrastructure lessnetwork.	BTL2	Understand
6.	List the challenges in mobile computing.	BTL1	Remember
7.	Classify the types of wireless networks.	BTL2	Understand
8.	Illustrate the Ad-Hoc networks with pictorial representation.	BTL3	Apply
9.	Outline the uses of Ad-Hoc networks.	BTL2	Understand
10.	List the properties of MAC protocol.	BTL1	Remember
11.	Point out the objectives of MAC protocols.	BTL2	Understand
12.	Illustrate the function of presentation, application and data tier of mobile environment.	BTL2	Understand
13.	What is the role of a MAC protocol?	BTL1	Remember
14.	Classify the types of MAC Protocol.	BTL2	Understand
15.	List the random assignment schemes.	BTL1	Remember

16.	Examine the hidden and exposed terminal problems in infrastructure-less network.	BTL4	Analyze
17.	Infer the primary factor influencing signal strength between near and far terminals in wireless communication.	BTL2	Understand
18.	"MAC protocol designed for infrastructure based wireless network may not work satisfactory in infrastructure-less environment"-Justify.	BTL5	Evaluate
19.	Formulate a reason why collision detection based protocol is not suitable for wireless networks.	BTL6	Create
20.	Assess the working of RTS/CTS in MACA.	BTL5	Evaluate
21.	Recall the classifications of wireless networks.	BTL1	Remember
22.	Outline some cellular phone standards.	BTL2	Understand
23.	Select the TDMA scheme that is suitable for satellite system.	BTL3	Apply
24.	Identify the problems faced by devices in wireless transmission.	BTL4	Analyze
PART-B			
1.	(i) Determine the applications of mobile computing in the real world scenario. (7) (i) Prioritize the characteristics of mobile computing. (6)	BTL5	Evaluate
2.	(i) Elaborate the generations of mobile communication technologies. (6) (ii) Adapt mobile computing to design Taxi dispatcher and monitoring service. Explain the components in detail. (7)	BTL6	Create
3.	(i) Defend the hidden and exposed terminal problem in infrastructure-lessnetwork. (7) (ii) Assess the architecture of mobile computing. (6)	BTL5	Evaluate
4.	(i) Compare the important functional difference between 1G, 2G and 3Gcellular networks.(8) (ii) Is 3G cellular wireless technology superior to 2G technology? Justify your answer. (5)	BTL5	Evaluate
5.	Examine the various taxonomy of MAC protocols in detail. (13)	BTL4	Analyze
6.	(i) Explain the wireless MAC issues in detail. (7) (ii) Determine the working of SDMA and gives its application. (6)	BTL5	Evaluate
7.	Estimate the performance of various fixed assignment schemes of MAC protocol with appropriate illustration. (13)	BTL5	Evaluate
8.	Distinguish between SDMA, TDMA, FDMA and CDMA (13)	BTL4	Analyze
9.	Categorize the types of CSMA. Examine its working principle along with advantages and disadvantages. (13)	BTL4	Analyze

10.	(i) Explain the principle responsibilities of the MAC Protocol?(6) (ii) Appraise the functionality of MAC protocol in wireless networks. (7)	BTL5	Evaluate
11.	Demonstrate the various random assignment schemes that are used in MAC protocol. (13)	BTL3	Apply
12.	Discover the usgae of multiple accesses with collision avoidance (MACA). (13)	BTL4	Analyze
13.	Rate the reasons for failure of MAC scheme in wireless networks. (13)	BTL5	Evaluate
14.	Compose any one scheduled based MAC protocol and explain in detail. (13)	BTL6	Create
15.	Illustrate in detail about various technologies of mobile computing. (13)	BTL3	Apply
16.	Explain the operations of MACA with appropriate diagrams. (13)	BTL5	Evaluate
17.	(i) Review the limitations of mobile computing. (6) (ii) Explain the various multiplexing techniques in detail. (7)	BTL5	Evaluate
PART – C			
1.	Assume that three stations A, B and C are deployed as follows: (i) B is within the transmission range of A and C (ii) A and C are not within the transmission range. Build a method to address this problem. (15)	BTL 6	Create
2.	(i) Compare 1G with 2G wireless communication technologies.(8) (ii) Summarize the details of 2.5G. How is it different from 2G and 3G technologies? (7)	BTL 5	Evaluate
3.	Solve the hidden/exposed terminal problem using MACA protocol. (15)	BTL 5	Evaluate
4.	Estimate the performance of MACA protocol. (15)	BTL 5	Evaluate
5.	Consider the following scenario: (i) Node A and C wants to transmit data to B at the same time. (ii) Node B transmits data to node A meanwhile Node C wants to transmit data to node D in the network. Identify the problems during this data transmission. Explain it. Compile a method that overcomes this problem. (15)	BTL 6	Create

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UNIT II - MOBILE TELECOMMUNICATION SYSTEM

GSM – Architecture – Protocols – Connection Establishment – Frequency Allocation – Routing – Mobility Management – Security –GPRS- UMTS- Architecture

	PART – A		
Q. No.	**Questions**	**BT Level**	**Competence**
1.	What is meant by GSM?	BTL1	Remember
2.	Define cell.	BTL1	Remember
3.	List the important features of GSM security.	BTL1	Remember
4.	Summarize the details of MSC and BSC.	BTL2	Understand
5.	Experiment with call routing.	BTL3	Apply
6.	Outline the disadvantages of GSM.	BTL2	Understand
7.	What is the frequency range of uplink and downlink in GSM network?	BTL1	Remember
8.	Demonstrate the function of HLR and VLR.	BTL2	Understand
9.	List the possible handover scenarios of GSM.	BTL1	Remember
10.	What are the three levels at which security measures are implemented in GSM?	BTL1	Remember
11.	Analyse the need for EIR.	BTL4	Analyze
12.	Classify the services of GPRS.	BTL2	Understand
13.	Illustrate the architecture of GSM authentication.	BTL3	Apply
14.	What are the information are stored in SIM?	BTL1	Remember
15.	GPRS is advantageous than GSM. Justify the statement.	BTL5	Evaluate
16.	Formulate the limitations of GPRS.	BTL6	Create
17.	What are the main elements of UMTS?	BTL1	Remember
18.	Categorize the types of Handoff.	BTL4	Analyze
19.	Can UMTS networks easily work with the existing GSM/GPRS networks? Justify your answer.	BTL5	Evaluate
20.	Explain the function of GGSN.	BTL2	Understand
21.	Point out the goals of GPRS.	BTL2	Understand
22.	Compare soft handoff with hard handoff.	BTL4	Analyze
23.	Identify the reasons for handover.	BTL3	Apply
24.	Discover a model to illustrate the effect of handoff.	BTL4	Analyze
	PART-B		
1.	(i) Elaborate the GSM architecture and its services in detail. (7) (ii) Estimate the GSM Authentication and Security. (6)	BTL6	Create
2.	Identify the services offered by GSM and explain in detail. (13)	BTL3	Apply

3.	Analyze the purpose of radio interface U_m in GSM. (13)	BTL4	Analyze
4.	Explain the protocol architecture for signaling in GSM. (13)	BTL5	Evaluate

5.	(i) Write short notes on the following:
	
	    a. MSISDN (2)
	
	    b. IMSI (2)
	
	    c. TMSI (2)
	
	    d. MSRN (2)
	
	(ii) Compile the procedure for MTC and MOC. (5)
		BTL6	Create

6.	Examine in detail, the various types of handover in GSM with necessary diagrams. (13)	BTL4	Analyze
7.	Elaborate on various frequency allocation methods.(13)	BTL6	Create
8.	(i) Examine the facts in GSM connection established. Provide a step-by-step explanation of the call setup and termination procedure in GSM. (ii) Categorize the GSM security services and explain.	BTL4	Analyze
9.	Explain the GPRS architecture reference model with a neat diagram. (13)	BTL5	Evaluate
10.	Assess the functions of GPRS protocol stack with neccessary illustration. (13)	BTL5	Evaluate
11.	(i) Prioritize the services of GPRS. (7) (ii) Determine the advantages of GPRS over GSM. (6)	BTL5	Evaluate
12.	Explain in detail, the network architecture of UMTS with a neat diagram. (13)	BTL5	Evaluate
13.	Decide how the mobile cellular communication has evolved over the generation of technology. (13)	BTL5	Evaluate
14.	Estimate the functions of HLR and VLR in call routing and roaming. (13)	BTL5	Evaluate
15.	(i) Explain the message flow between mobile station and BTS during mobile originated call with suitable illustrations. (7) (ii) Explain the bearer services of GSM system. (6)	BTL5	Evaluate
16.	Interpret the inter cell and intra cell handovers in GSM ? (13)	BTL5	Evaluate
17.	(i) Explain about MOT and MTO in GSM. (7) (ii) Discuss about the interfaces in UMTS. (6)	BTL5	Evaluate
PART-C			
1.	Determine the functions of authentication and encryption in GSM. (15)	BTL 5	Evaluate
2.	Do mobile phones affect the human body negative? Justify the	BTL 5	Evaluate

	statement is true or false. (15)		
3.	Assess the applications of GPRS with its advantages and disadvantages. (15)	BTL 5	Evaluate
4.	Elaborate the domains and interfaces of Universal Mobile Telecommunication System (UMTS). (15)	BTL 6	Create
5.	GSM allows a subscriber to move throughout the coverage area with a capability to make or receive calls. Predictthe components involved in make or receive calls in roaming. (15)	BTL 6	Create

UNIT III - WIRELESS NETWORKS

Wireless LANs and PANs – IEEE 802.11 Standard – Architecture – Services – Blue Tooth- Wi-Fi – WiMAX

PART – A

Q. No.	Questions	BT Level	Competence
1.	What is WLL?	BTL1	Remember
2.	Why wireless LAN services are of lower quality than wired LAN?	BTL1	Remember
3.	Why cannot wireless LANs implement CSMA/CD?	BTL2	Understand
4.	Summarize the design goals of WLANs.	BTL2	Understand
5.	Imagine the user scenarios for WPANs.	BTL6	Create
6.	List the various standards in Wireless PANs.	BTL1	Remember
7.	Inspect the advantages of WLANs.	BTL3	Apply
8.	List any four Wireless LAN standards.	BTL1	Remember
9.	List the advantages and disadvantages of Wireless LANs.	BTL1	Remember
10.	Define Ad hoc wireless network with example.	BTL1	Remember
11.	Distinguish between infrastructure and ad-hoc networks.	BTL4	Analyze
12.	Compare wired networks with adhoc wireless networks based on routing.	BTL4	Analyze
13.	What is the format of frame control field of 802.11 MAC packet structure?	BTL1	Remember
14.	Evaluate the criteria's under which WPAN is discussed using IEEE 802.11.	BTL5	Evaluate
15.	List the services provided by IEEE 802.11.	BTL1	Remember
16.	Discover the elements of Bluetooth core protocols.	BTL4	Analyze
17.	What is piconet? What restricts the number of active devices in a piconet?	BTL1	Remember
18.	Compare infra-red with radio transmission.	BTL4	Analyze

19.	Compose the advantage of infra-red technology.	BTL6	Create
20.	Assess the elements in core protocols in Bluetooth.	BTL5	Evaluate
21.	What are the three low power states of a Bluetooth state?	BTL1	Remember
22.	List the applications of Wi-Fi.	BTL1	Remember
23.	Differentiate Wi-Fi from WiMAX.	BTL4	Analyze
24.	Why is WiMAX forum formed?	BTL1	Remember
PART-B			
1.	(i) Explain the system architecture of IEEE 802.11. (7) (ii) Analyze HiperLAN architectural components and theirinteractions. (6)	BTL4	Analyze
2.	Explain the IEEE 802.11 MAC management. (13)	BTL1	Remember
3.	Describe Bluetooth in detail. (13)	BTL1	Remember
4.	(i) Explain the various IEEE 802.11 standards in detail. (7) (ii) Explain the services offered by IEEE 802.11 standard. (6)	BTL2	Understand
5.	(i) Explain the features of HiperLAN. (7) (ii) Explain WLL in detail. (6)	BTL2	Understand
6.	(i) Explain contention free access using polling mechanism in IEEE 802.11. (8) (ii)Explain the protocol stack of Bluetooth. (5)	BTL2	Understand
7.	(i) Briefly explain about features and applications of ad-hoc networks. (7) (ii)Explain how power management is done in IEEE 802.11 infrastructure architecture. (6)	BTL4	Analyze
8.	Explain the working principle of the MAC layer of Bluetooth. (13)	BTL1	Remember
9.	(i) Why is the physical layer in IEEE 802.11 subdivided? Discuss.(7) (ii)Can a network be wireless, but not mobile? Discuss. (6)	BTL4	Analyze
10.	(i) Model the architecture of WiFI in detail. (7) (ii) Describe the architecture of WiMAX in detail. (6)	BTL3	Apply
11.	Identify the system and protocol structure of 802.16 standard. (13)	BTL3	Apply
12.	Elaborate on mobile ad-hoc networks. (13)	BTL6	Create
13.	(i) With a suitable diagram, discuss the extended service set. (7) (ii) Elaborate the advantages and disadvantages of WLAN. (6)	BTL6	Create
14.	Defend the features and applications of adhoc networks.(13)	BTL5	Evaluate
15.	(i) Design the schematic for the physical layer of IEEE802.11 infrared and explain. (7)	BTL6	Create

	(ii) Discuss with suitable diagram distributed coordination function with IEEE802.11 medium access control logic. (6)		
16.	(i) Infer the advantages and disadvantages of wireless LAN? Under what situation is a wireless LAN desirable over wired LAN. (7) (ii) List the types of Wireless LAN. Also explain mobility in wireless LAN. (6)	BTL4	Analyze
17.	(i) Write short note on the following protocol used in Bluetooth technology: (a) Link Manager Protocol (2) (b) Logic Link Control and Adaption Protocol (2) (c) Service Discovery Protocol (2) (d) RFCOMM (1) (ii) Develop a Bluetooth network from a Bluetooth device. Elaborate the security principles in Bluetooth. (6)	BTL5	Evaluate
PART - C			
1.	Estimate the system and protocol architecture of IEEE 802.11 standard. (15)	BTL 6	Create
2.	Evaluate the two MAC sublayers defined by IEEE 802.11 standard and explain. (15)	BTL 5	Evaluate
3.	Inspect the functions of MAC & physical layer of IEEE 802.16 in detail. (15)	BTL 4	Analyze
4.	Asess the various types of HiperLANs. (15)	BTL 5	Evaluate
5.	Consider the following three different scenarios of designing a generic WLAN which takes into account the number of users and their activities rather than the size/ type of the business itself: • A smalloffice or a workgroup deployment • An enterprise deployment • A telecommuters deployment Choose the MAC layer mechanisms used to deploy successful WLAN that supports very fast, secure and scalable wireless network for the above scenario. (15)	BTL 6	Create
UNIT IV - MOBILE NETWORK LAYER			
Mobile IP – DHCP – AdHoc – Proactive and Reactive Routing Protocols – Multicast Routing- Vehicular Ad Hoc networks (VANET) – MANET Vs VANET – Security			

PART - A			
Q. No.	**Questions**	**BT Level**	**Competence**
1.	What is ad hoc network?	BTL1	Remember
2.	Differentiate cellular from Ad Hoc networks.	BTL4	Analyze
3.	List the characteristics of MANETs.	BTL1	Remember
4.	Identify the issues that are addressed by routing protocol in MANET.	BTL3	Apply
5.	What is Mobile IP?	BTL1	Remember
6.	List the advantages in DSR.	BTL1	Remember
7.	Compare AODV with DSR protocols.	BTL4	Analyze
8.	Name the entities in Mobile IP.	BTL1	Remember
9.	What is IP-in-IP encapsulation?	BTL1	Remember
10.	List the applications of MANET.	BTL1	Remember
11.	Classify the agent discovery in mobile IP.	BTL3	Apply
12.	Distinguish between minimal encapsulation and IP-in-IP encapsulation.	BTL4	Analyze
13.	Relate the tunneling with mobile IP.	BTL2	Understand
14.	Distinguish between proactive and reactive protocols.	BTL4	Analyze
15.	Summarize about security issues in MANET.	BTL5	Evaluate
16.	Compare DSDV with DSR.	BTL5	Evaluate
17.	Outline the concept of RTT.	BTL2	Understand
18.	Can cellular network and wireless LAN be considered as Ad Hoc networks? Justify.	BTL6	Create
19.	Construct a VANET.	BTL6	Create
20.	Analyze the types of attacks on adhoc networks.	BTL4	Analyze
21.	What is the need for mobile IP?	BTL1	Remember
22.	Differentiate the functionalities of a foreign agent from home agent.	BTL4	Analyze
23.	Examine the purpose of agent solicitation message.	BTL3	Apply
24.	What should be the value of TTL field in the IP packet of agent advertisement? Why?	BTL1	Remember
PART-B			
1.	(i) Determine the characteristics and applications of MANET. (7) (ii) Explain DSR Routing Protocols in detail. (6)	BTL5	Evaluate

2.	(i) Examine the DHCP client initialization procedure. (6) (ii) Distinguish between reactive and proactive routing protocols. (7)	BTL4	Analyze
3.	Explain in detail, the traditional routing protocols. (13)	BTL5	Evaluate
4.	Elaborate on multicast routing protocols with neccessay illustration. (13)	BTL6	Create
5.	(i) Briefly discuss about agent discovery in Mobile IP. (7) (ii) Compile the registration procedure in Mobile IP. (6)	BTL6	Create
6.	(i) Analyze DSDV routing in detail. (7) (ii) Discover the advantages and Disadvantages of DSDV. (6)	BTL4	Analyze
7.	Discuss route discovery and route maintenance mechanisms in DSR with illustrations. List its merits and demerits. (13)	BTL6	Create
8.	Explain the design issues in MANET and the applications of adhoc network. (13)	BTL5	Evaluate
9.	(i) Illustrate the classification of unicast MANET Routing Protocols. (7) (ii) Identify how multicast routing is carried out in ad-hoc networks. (6)	BTL3	Apply
10.	(i) List the security threats in a MANET? What are the factors responsible for limited security in MANETs? (6) (ii) For every layer of MANET protocol stack, select at least one type of security attack that exploits vulnerability at that layer.(7)	BTL3	Apply
11.	With a diagram explain about DHCP and its protocol architecture. (13)	BTL5	Evaluate
12.	Discuss the architecture of VANET with a neat diagram. (13)	BTL6	Create
13.	Asess the performance of any two VANET routing protocol with an example. (13)	BTL5	Evaluate
14.	(i) Compare and contrast MANET vs VANET. (7) (ii) Estimate the security attacks on VANET. (6)	BTL5	Evaluate
15.	With a neat diagram , defend how packet delivery to and from a mobile node is transferred through mobile IP. (13)	BTL5	Evaluate
16.	(i) Explain the client server configuration of DHCP. (7) (ii) Prioritize the main functions of DHCP. (6)	BTL5	Evaluate
17.	Evaluate the performance of DSR routing over DSDV. (13)	BTL4	Analyze
PART - C			
1.	Consider the network given below. Here 'S' is source node and 'D' is target node. Build the process of route discovery, route	BTL 6	Create

	reply,data delivery and route caching using DSR. (15)		
2.	Determine the three approaches to support the IP micro-mobility. (15)	BTL 5	Evaluate

3.	Write short notes on the following:
	    (i) Ad Hoc On-demand Distance Vector(AODV) (8)
	    (ii) Zone Routing Protocol. (7)
		BTL 6	Create

4.	A major task of the designer of a wireless sensor network is prolonging the life of the network. Justify and Explain how this is achievedwhile designing a MANET.(15)	BTL 6	Create
5.	Explain with a neat diagram how a packet is delivered from a mobile node to another mobile node without losing its information during mobility of the nodes. (15)	BTL 5	Evaluate

UNIT V - MOBILE TRANSPORT AND APPLICATION LAYER

Mobile TCP – WAP – Architecture – WDP – WTLS – WTP – WSP – WAE – WTA Architecture – WML

PART - A

Q. No.	Questions	BT Level	Competence
1.	Infer the basic features of WML.	BTL2	Understand
2.	Define Mobile TCP.	BTL1	Remember
3.	List the advantages of M-TCP.	BTL1	Remember
4.	What is WTLS?	BTL1	Remember
5.	Name the classes of wireless transaction protocol.	BTL1	Remember
6.	List the features of WSP.	BTL1	Remember
7.	Determine the components of WAP.	BTL5	Evaluate
8.	Decide the applications of M-TCP.	BTL5	Evaluate
9.	Identify standard libraries for WML script.	BTL3	Apply
10.	Write a note on session management.	BTL6	Create
11.	What is indirect TCP?	BTL1	Remember
12.	Analyze the mechanism of the transmission control protocol.	BTL4	Analyze

13.	Evaluate the service request structure of WTP class 0.	BTL5	Evaluate
14.	Compose the basic objective of WAP.	BTL6	Create
15.	Compose the time sequence chart for WSP /B session termination.	BTL6	Create
16.	Define wireless application environment.	BTL1	Remember
17.	Where i-mode is used?	BTL1	Remember
18.	what is SyncML?	BTL1	Remember
19.	Examine the advantages of Snooping TCP.	BTL4	Analyze
20.	Assess the transaction oriented TCP connection setup.	BTL5	Evaluate
21.	Recall how does mobile TCP maintain end to end semantics?	BTL1	Remember
22.	Summarize the parameters of TR_Invoke.req primitive.	BTL2	Understand
23.	Determine how can we extend basic WAE to WTA?	BTL5	Evaluate
24.	Infer the capabilities of WML script.	BTL4	Analyze
PART-B			
1.	Explain the wireless markup language with its features. (13)	BTL5	Evaluate
2.	Examine the classical TCP improvements in detail. (13)	BTL4	Analyze
3.	Estimate the functionality of WSP/B over WTP. (13)	BTL5	Evaluate
4.	Elaborate on push architecture with a neat diagram. (13)	BTL4	Analyze
5.	(i) Appraise the WTP class 2 protocols. (7) (ii) Assess the working of Snooping TCP. (6)	BTL5	Evaluate
6.	Explain the logical model of wireless application environment in detail. (13)	BTL5	Evaluate
7.	Examine the details of wireless transport layer security. (13)	BTL4	Analyze
8.	Estimate the functionalities of various types of TCPs. (13)	BTL5	Evaluate
9.	Determine the components of WAP architecture and explain in detail.(13)	BTL6	Create
10.	Write short note on the following: i) i- mode protocol stack (7) ii) SyncML (6)	BTL6	Create
11.	Examine the details of traditional TCP protocol. (13)	BTL4	Analyze
12.	Illustrate the wireless application protocol architecture. (13)	BTL3	Apply
13.	Identify the service primitives of WDP. (13)	BTL3	Apply
14.	Determine how the WMLscript complements to WML. (13)	BTL6	Create
15.	(i) Elaborate on Wireless Telephony application (WTA) logical	BTL6	Create

	architecture. (7) (ii) Discuss the several standard libraries for WML script specified by WAP. (6)		
16.	(i) Discuss the architecture of Wireless Telephony application in detail. (7) (ii) Explain the following: (a) WML (3) and (b)WML scripts. (3)	BTL6	Create
17.	Recent days Internet sites offer facilities to download music files from video store directly and get the payment billed to our mobile phones. ompile a Wireless Telephony Application (WTA) architecture that would provide a similar facility for Mobile games. (13)	BTL6	Create
PART - C			
1.	Write short notes on the following: i) Indirect TCP (5) ii) Snooping TCP (5) iii) Mobile TCP (5)	BTL 6	Create
2.	Explain the functions of the wireless transaction protocol. (15)	BTL 5	Evaluate
3.	With neat timing chart explain about wireless session protocol. (15)	BTL 5	Evaluate
4.	Discuss the logical diagram of wireless telephone applications. (15)	BTL 6	Create
5.	Formulate the parameters of transaction and session protocols. (15)	BTL 6	Create