

**ANURAG Engineering College****(An Autonomous Institution)****IV B. Tech II Semester Advanced Supplementary Examinations, August - 2024****MOBILE COMPUTING****(COMPUTER SCIENCE AND ENGINEERING)****Time: 3 Hours****Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	<b>Course Outcome</b>	<b>B.T Level</b>	<b>Marks</b>
1. Give reasons for a handover in GSM and the problems associated with it.	CO1	L1	2M
2. Explain about the novel applications and limitations of mobile computing.	CO1	L2	3M
3. List the services of GSM.	CO2	L1	2M
4. Discuss the concept of tunneling and encapsulation.	CO2	L2	3M
5. What is Snooping TCP?	CO3	L1	2M
6. List out the advantages of M-TCP?	CO3	L1	3M
7. How does DSR routing protocol work?	CO4	L2	2M
8. What is the difference between AODV and DSR.	CO4	L2	3M
9. Define piconet.	CO5	L1	2M
10. What are link management protocols used in Bluetooth?	CO5	L1	3M

**Section B (Essay Questions)****Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Describe the mobile computing architecture with a neat diagram.	CO1	L3	10M
B) Why do Hidden and Exposed terminal problems arise? Explain in detail.	CO1	L3	10M
12. A) Describe mechanism for IP packet delivery using mobile IP.	CO2	L3	10M
<b>OR</b>			
B) Explain how DHCP used for mobility and how it supports mobile IP.	CO2	L2	10M
13. A) Explain how selective retransmission a useful extension of TCP is? Are there any disadvantages of this approach?	CO3	L2	10M
<b>OR</b>			
B) Demonstrate Fast retransmit/fast recovery, Transmission /time- out freezing.	CO3	L3	10M
14. A) Write about metrics of Adhoc routing protocols.	CO4	L3	10M
<b>OR</b>			
B) Explain Destination sequence distance vector.	CO4	L2	10M
15. A) Draw the Bluetooth protocol stack and explain the core protocols.	CO5	L3	10M
<b>OR</b>			
B) Draw and discuss the protocol architecture of WAP.	CO5	L3	10M