May-June 2024
(B.Tech) Program: Computer Engineering Scheme I/II/IIB
Regular Examination: TY Semester: VI
Course Code: CEC603and Course Name: Mobile Computing

Date of Exam: 22/5/24   Duration: 02.5 Hours   Max. Marks: 60

Instructions:
(1) All questions are compulsory.
(2) Draw neat diagrams wherever applicable.
(3) Assume suitable data, if necessary.

		Max. Marks	CO	BT level
Q 1	**Solve any six questions out of eight:**	**12**		
i)	What is an antenna? List 2 types	2	CO1	R
ii)	Write how A3 algorithm authentication works.	2	CO2	R
iii)	What is triangular routing?	2	CO3	R
iv)	Explain WEP authentication	2	CO4	R
v)	Define cellular IP	2	CO5	R
vi)	What is a piconet?	2	CO6	R
vii)	State the applications of GPRS	2	CO2	R
viii)	What is SON?	2	CO6	R
Q.2	**Solve any four questions out of six.**	**16M**		
i)	Explain signal propagation and its types.	4	CO1	R
ii)	Describe the MAC and Internet protocol wrt any real time application.	4	CO2	R
iii)	List the variants of TCP and explain any one.	4	CO3	R
iv)	Compare Infrastructure and ad-hoc network	4	CO4	U
v)	What is macro and micro mobility?	4	CO5	R

	May-June 2024 (B.Tech) Program: Computer Engineering Scheme I/II/IIB Regular Examination: TY Semester: VI Course Code: CEC603and Course Name: Mobile Computing			
Date of Exam: 22/5/24	Duration: 02.5 Hours		Max. Marks: 60	

vi)	Explain the nodes present in E-UTRAN architecture	4	CO6	R
Q.3	**Solve any two questions out of three.**	**16M**		
i)	Draw and explain the IPV6 Header. Compare both the versions wrt IP mobility	8	CO5	R
ii)	Explain the different security threats to WLAN and discuss the available solutions	8	CO4	R
iii)	Discuss what is multiplexing and its different techniques.	8	CO1	R
Q.4	**Solve any two questions out of three.**	**16**		
i)	Compare LTE and LTE Advanced	8	CO6	U
ii)	Explain in detail the GSM architecture.	8	CO2	R
iii)	What is hidden and exposed terminal problem?Discuss solutions to these problems	8	CO3	R

****