

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2020 COURSE)
B.Tech.Sem - IV COMPUTER :SUMMER- 2022
SUBJECT : ITC-II: WIRELESS COMMUNICATION

Day : Friday

Date : 24-06-2022

S-24237-2022

Time : 10:00 AM-01:00 PM

Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
 - 4) Use of non-programmable calculator is **ALLOWED**.
 - 5) Assume suitable data, if necessary.
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Q. 1 Explain DSSS with binary phase shift keying and compare its performance with FSSS. (10)

OR

Define briefly the operations of a Time Division Multiple Access (TDMA) Schemes. (10)

Q. 2 Compare classical ALOHA and slotted ALOHA. (10)

OR

Describe in detail about the multiple access with collision avoidance. (10)

Q. 3 Explain the process of call organisation and call termination in GSM. (10)

OR

With neat sketch discuss about UMTS system architecture. (10)

Q. 4 With suitable diagram explain launching mechanism and solve the following: (10)
A satellite is orbiting in a geosynchronous orbit of radius 42500 km. Find the velocity and time of orbit.

OR

Discuss in detail about satellite links and TCP. (10)

Q. 5 With neat diagram explain IEEE 802.11 system architecture. (10)

OR

Discuss about Bluetooth architecture. (10)

Q. 6 List and explain various methods of congestion control in mobile communication. (10)

OR

Explain Mobile TCP with advantages and disadvantages (10)

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