

**DEPARTMENT OF INFORMATION TECHNOLOGY, NITK SURATHKAL**  
**END-SEMESTER EXAMINATION, JANUARY 2023**  
**IT205 COMPUTER NETWORKING LAB**

**Class: III SEM BTECH**

**Time: 3 Hrs.**

**Date: 17/01/2023**

**Marks: 40**

Develop a client server question answer chat application as follows.

An user at the client system provides a query as input from the keyboard and the client program sends it to the server. Display the query at the server. The user at the server answers the question by typing using the keyboard and the server must send it to the client system. The client displays the answer. The question answer system continues until the client specifies the keyword 'Thanks' and the server also replies by mentioning 'Welcome'.

**[Evaluation: Writing the program : 20 Marks + Execution of the program 10 + Program working for multiple queries with proper closing: 10. ]**

Server	Client
Query from client: Full form of NITK? Answer: National Institute of Technology Karnataka Surathkal	Query : Full form of NITK? Answer from server: National Institute of Technology Karnataka Surathkal
Query from client : CCN means? . Answer: Computer Communication and Networking	Query : CCN means? Answer from Server: Computer Communication and Networking
Query from client : What is 15+20? Answer : 35	Query : What is 15+20? Answer from Server: 35
Query from client : Thank you Answer : Welcome	Query: Thank you Answer from Server: Welcome
Closing	Closing

Record and show the results for above given input.

Record and show the the results for one more set of queries.

Socket  
bind  
listen  
accept  
read  
write