1. What is a Zombie process?
2. Explain popen() and pclose() functions in detail.
3. Write a C program to avoid Zombie process by forking twice.
4. Discuss the concept of FIFO with example program.
5. What is the use of setjmp and longjmp functions? Write a C program to illustrate the same.
6. Explain fork( ) and vfork( ) system call. Using a C program illustrate how fork system call differs from vfork.
7. Explain socket function.
8. Discuss waitpid() function with sutable example.
9. Write a note on process accounting.
10. Define Inter Process Communication (IPC). List the IPC types supported in UNIX system.
11. List the limitations of pipe IPC.
12. Define Message Queue. Which functions are used to carry out IPC using message queue?
13. What is Daemon process? List out its coding rules
14. Give Daemon process characteristics and explain how error logging is carried out by a daemon process with suitable diagram.
15. Explain the following along with their prototype.

(i) Msgend() (ii) msgrcv() (iii) msgctl() (iv) shmget() (v) shmat() (vi) shmdt()

(vii)Shmctl() (viii) semop() (ix) semctl

1. Develop a code snippet where parent sends “hello RNSIT” message to the child process through the pipe. The child on receiving this message should display it on the standard output.
2. Write a program to demonstrate Zombie process?