

Q.2 → what do you mean by arrival rate and service rate in queuing theory? what is the importance of replacement.

Ans → Arrival rate, and service rate:-
In queuing system, it is supposed that the customers arrive in this system casually and follow a poisson distribution or equivalently the inter-arrival times follow exponential distribution.

There are two queuing situations:-

- ① Pure birth model
- ② Pure death model

Replacement:- The replacement theory of operation research is basically meant for decision-making process for replacing old equipments with a new one, generally for better usage.

[Replacement Problem]

