

Q.2 → Define the sequencing problem?  
 What do you mean by saddle point?

Ans → Sequencing problem:- Sequencing problem is the selection of appropriate for different types of jobs that are finite in number, to be performed on a finite number of machines.

Terminology and notations

- ① Number of machines
- ② Processing time
- ③ Processing order
- ④ Idle time on a machine

Saddle point :- A combination of strategies in which each player can find the highest possible payoff assuming the best possible play by the opponent is called saddle point.

Example - let consider the following table that shows the two person - zero - sum game:

		Player B		
		B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>
Player A	A <sub>1</sub>	5	9	3
	A <sub>2</sub>	6	-12	-11
	A <sub>3</sub>	7	12	9

The saddle point can be calculated as below:

	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	Row min
A <sub>1</sub>	5	9	3	3
A <sub>2</sub>	6	-12	-11	-12
A <sub>3</sub>	7	12	9	7
Column Max	7	2	9	

From the table, it is clear that saddle point is (A<sub>3</sub>, B<sub>1</sub>)