

Ans 9

M.R.P. (Material Requirement Planning)

Material requirement planning is the technique for planning the ordering & usages of materials at various levels of production & for monitoring the stocks during these transaction.

MRP is both inventory control & scheduling technique. It utilizes the master schedule for end product, product structure for determining requirement of sub-assemblies, component & raw materials, procurement or manufacturing lead time & inventory status of product.

MRP is based on the concept of independent & dependent demand. The demand is independent when ideas may not necessarily selected to other in terms of customers & quantity. But once sales requirement are forecasted it become dependent demand.

MRP is useful when one or all of the following conditions are present

- (i) The final product is complex
- (ii) The manufacturing lead time for components & raw material are relatively long.
- (iii) Manufacturing cycle is long for the finished product
- (iv) The demand for the product is known & it is desirable to make specific manufacturing plans.

Objective of MRP

1. To improve customer services
2. To reduce inventory cost by reducing inventory levels
3. To improve plant operating efficiency by better use of productive resources.

Techniques of production control:-

Production control is the updating and revising procedure where, according to the requirements of implementation, the labour assignment, the machine assignments, the job priorities, the line speeds, the production routes, etc. may revise. It is basically a correcting mechanism, which goes on throughout the implementation process of the already drawn up production plan & schedule.

Techniques of Production Control

- (1) Programming
- (2) Ordering
- (3) Dispatching
- (4) Expediting or follow up
- (5) Inventory control

These are the five techniques of production control through these techniques the production control become more and more effective.