**Code No.MB301C**

**METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY**

**(An Autonomous Institution)**

**M.B.A III-Semester (Supplementary) Examination, AUG-2023**

**Subject: OPERATIONS MANAGEMENT**

**Time: 3 hours Max.Marks:60**

**Note: Missing data, if any, maybe suitably assumed.**

**PART-A**

**Answer All the questions.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q.No | Questions | Marks |  |  |
| 1. a | Define Process Design  | 2 |  |  |
| b | Explain about Line Balancing  | 2 |  |  |
| c | What do you mean by Work Measurement  | 2 |  |  |
| d | Elaborate briefly on Vendor Rating  | 2 |  |  |
| e | What do you mean by Safety Stock  | 2 |  |  |

**PART-B**

**Answer Any Five questions**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Questions** | **Marks** |  |  |
| 2 |  | Define Production planning and control and discuss its functions? | 10 |  |  |
| 3 |  | Define Facility Location and explain the factors influencing plant location? | 10 |  |  |
| 4 |  | Define Work Study? Explain the objectives and components involved in work study? | 10 |  |  |
| 5 |  | Explain the concept of Materials Management and its Need & Importance? | 10 |  |  |
| 6 |  | Define Stores Management? Discuss its objectives and functions  | 10 |  |  |
| 7 | a | Write briefly on basic manufacturing processes involving Casting, Machining, and Welding, Shearing extrusion, Heat treatment and Unconventional machining? | 10 |  |  |
| b | What scheduling challenges in various service operations? |  |  |  |
| 8 |  | You are given the following data regarding the processing times of some jobs on three machines ABC. The order of processing is ABC. Determine the sequence that minimizes the total elapsed time required to complete the jobs. Also evaluate elapsed time and idle time.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Jobs | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Machine A | 3 | 8 | 7 | 4 | 9 | 8 | 7 |
| Machine B | 4 | 3 | 2 | 5 | 1 | 4 | 3 |
| Machine C | 6 | 7 | 5 | 11 | 5 | 6 | 12 |

 | 10 |  |  |
| 9. | a | Discuss about Value analysis and its role in cost reduction? | 10 |  |  |
| b | What do you mean by Inventory Decision? Discuss their functions? |  |  |  |