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| **C:\Users\ADMIN\Desktop\j.png** | **JAIPURIA INSTITUE OF MANAGEMENT, INDORE**  Post Graduate Diploma in Management |
| **Course Title: Materials & Inventory Management (Course Code: OM- 502)**  **End-Term Improvement Examination, Term – V (Batch 2021-23) (March, 2023)** | |
| **Time Duration : 2 Hours Total Marks: 40** | |

***General Instructions*:**

1. *Answer the questions as directed. The break-up of the marks is given wherever necessary.*
2. *Marks against each question is indicated to its right.*
3. *Answer all the questions of a ‘Section/Question’ at one place in continuation.*
4. *Answers should be brief and to the point.*
5. *Do not write on the question paper except your roll number.*

**SECTION - A**

1. What are the objectives of MRP? How does MRP software help? Illustrate your answer with a chart.  **(8 Marks)**
2. Prepare a bill of material listing our components (minimum five) that will go into the manufacture of 100 dining tables in a furniture factory  **(7 Marks)**
3. (A) What is capacity planning? What are the responsibilities of capacity management? **(6 Marks)**

(B) what is the responsibilities of production activity control? **(4 Marks)**

**SECTION - B**

1. When working out the following please show your workings:
   1. A work centre has three machines each working a 16-hour day for five days a week. What is the weekly available time? **(3 Marks)**
   2. The same work centre in the previous problem is utilised 75% of the time. What are the hours per week actually worked? **(3 Marks)**
   3. Given the following parents and components, construct a product tree. Figures in parentheses show the quantities per item. How many Gs are needed to make one A? **(9 Marks)**

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| **Parent** | A | B | C | E |
| Component | B(2) | E(2) | G(3) | G(4) |
| C(4) | F(1) |  | F(3) |
| D(4) |  |  | H(2) |