**DIPLOMA IN PACKAGING TECHNOLOGY**

**SCHEME OF INSTRUCTIONS AND EXAMINATIONS**

**( III – SEMESTER )**

**MANUFACTURING TECHNOLOGY**

**Subject Title : Manufacturing Technology**

**Subject Code : PKG-303**

 **Periods per week : 04**

 **Periods per Semester : 60**

**TIME SCHEDULE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Major Topics** | **Number of Periods** | **Weightage of Marks** | **Short answer Questions** | **Essay type Questions** |
| 1 | Engineering measurements | 06 | 16 | 02 | 01 |
| 2 | Lathe & Lathe Work | 12 | 16 | 02 | 01 |
| 3 | Shaper, Slotter, Planner | 16 | 23 | 01 | 02 |
| 4 | Broaching Machine  | 06 | 13 | 01 | 01 |
| 5 | Milling, | 08 | 16 | 02 | 01 |
| 6 | Grinding and finishing processes, | 08 | 13 | 01 | 01 |
| 7 | Cutting Fluids, Coolants and Lubricants | 04 | 13 | 01 | 01 |
|  | **Total** | **60** | **110** | **10** | **08** |

**UNIT TEST - I**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Major Topics** | **Number of Periods** |
| 1 | Engineering measurements | 06 |
| 2 | Lathe & Lathe Work | 12 |
| 3 | Shaper, Slotter, Planner | 16 |

**UNIT TEST – I I**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Major Topics** | **Number of Periods** |
| 4 | Broaching Machine  | 06 |
| 5 | Milling, | 08 |
| 6 | Grinding and finishing processes, | 08 |
| 7 | Cutting Fluids, Coolants and Lubricants | 04 |

**MODEL QUESTION PAPERS  FOR UNIT TEST**

**DIPLOMA IN PACKAGING TECHNOLOGY**

**Manufacturing Technology ( PKG -303)** **UNIT TEST – I (SET -I)**

**PART   - A**

**Answer ALL questions each question carries 2 marks.                    3x2  =6**

1. What is engineering measurement?
2. What are the important terms used in measuring instruments?
3. Define “Drilling” and “Boring”.

**PART  -B**

**Answer any two of the following. Each question carries SEVEN marks.        7  X  2  =14**

1. What are the different measurement methods? Explain any two linear –

 measurement equipments.

1. Explain about “Lathe Machine” with line diagram
2. Explain working principle of Shaper.

**MODEL QUESTION PAPERS  FOR UNIT TEST**

**DIPLOMA IN PACKAGING TECHNOLOGY**

**Manufacturing Technology ( PKG -303)** **UNIT TEST – I (SET -II)**

**PART  -  A**

**Answer ALL questions each question carries 2 marks.                                    3x2  =6**

  1.What is the source of errors in measurement.

2. What are the lathe operations?

3. What is Plaining?

**PART  -  B**

**Answer any two of the following. Each question carries SEVEN marks.        7  X  2  =14**

4**.** Explain about “Vernier caliper” with neat sketch and write the

 Procedure to find out the least count.

5. Explain about “Lathe Machine main parts”

6. Explain working principle of Slotter.

**MODEL QUESTION PAPERS  FOR UNIT TEST**

**DIPLOMA IN PACKAGING TECHNOLOGY**

**Manufacturing Technology ( PKG -303)** **UNIT TEST – II (SET -I)**

**PART -  A**

**Answer ALL questions each question carries 2 marks.                3x2  =6**

1.What are the different types of milling tools?

2. Write Advantages & limitations of Grinding

3. What are the Different methods of lubrication?

                                                **PART   -  B**

**Answer any two of the following. Each question carries SEVEN marks.      7  X  2  =14**

1. Explain Principle of Broaching
2. Explain about “ universal Milling machine”
3. Explain the Principle of centreless grinding

**MODEL QUESTION PAPERS  FOR UNIT TEST**

**DIPLOMA IN PACKAGING TECHNOLOGY**

**Manufacturing Technology ( PKG -303)** **UNIT TEST –II (SET -II)**

**PART -  A**

**Answer ALL questions each question carries 2 marks.              3x2  =6**

1. 1. What are the different types of milling ?
2. What are the different types of Grinding processes?
3. What are the different types of cutting fluids ?

                                                                   **PART   ---   B**

**Answer any two of the following. Each question carries SEVEN marks.        7  X  2  =14**

1. Explain about Broaching Operations.
2. Explain about different “Milling” operations with neat sketch.
3. Explain about grinding.