Date: 16.06.2015
Max. Marks: 100

Time: 10.00 a.m. to 1.00 p.m.
Duration: 3 Hrs.

Instructions:
1. From Part A – answer all questions (compulsory). Each sub questions carries 1 mark. Total: 32 Marks
2. From Part B – Answer any 3 questions out of 5 questions. Each sub-question carries 16 marks. Total: 48 Marks
3. Part C is a case study (compulsory) with questions. Read the case study carefully and answer the questions. Total: 20 Marks
4. Please read the instructions given in the answer sheet.

Part – A 32 Marks
(attempt all questions Each sub questions carries 1 mark)

Q1. GIVE THE FULL FORM OF:

1. SBU –
2. FMS –
3. MADM –
4. ETP –
5. EOQ –
6. CAM –
7. SQC –
8. WWRP –

Q2. STATE WHETHER TRUE OR FALSE:

1) Cost of a special die/mold, is a direct cost.
2) LEAN manufacturing has a flat team base structure.
3) MRP is a basic of ERP.
4) HOISTS is overhead device.
5) GANTT chart is quality control chart.
6) Average outgoing quality curve is not an attribute of acceptance sampling.
7) Job enrichment is a part of good job design.

8) A KAIZEN Team is a voluntary group.

Q. 3 FILL IN THE BLANKS:

1) Project is type of ___________.
2) _____________ is an intangible product.
3) Cluster analysis is a ___________ technique.
4) DOE( Design of experiment) & TM (Togachi Method) are ___________ statistical techniques.
5) A specific product model is use in ________ short range planning.
6) Minimum Inventory is required in ___________ management.
7) ___________ layout refers to the movement of man & materials to the product which remains stationary.
8) PARETO analysis is a tool of ___________.

Q.4 MATCH THE FOLLOWING:

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Corporate strategy</td>
<td>- Load Schedule</td>
</tr>
<tr>
<td>2) KAIZEN TEAM</td>
<td>- Sanitation</td>
</tr>
<tr>
<td>3) DRUM BUFFER ROPE</td>
<td>- No load sharing</td>
</tr>
<tr>
<td>4) Workers Job</td>
<td>- Forming process</td>
</tr>
<tr>
<td>5) Extrusion</td>
<td>- Quality at the source</td>
</tr>
<tr>
<td>6) Day light</td>
<td>- Theory of constrain</td>
</tr>
<tr>
<td>7) Supply of portable water</td>
<td>- Top level management</td>
</tr>
<tr>
<td>8) Local chart</td>
<td>- Quality circle</td>
</tr>
</tbody>
</table>

Part – B 48 marks

(Answer any 3 questions out of 5 questions. Each sub-question carries 16 marks.)

Q.5 Explain in detail ERP
Q.6 Explain in detail PLC.
Q.7 Explain Objectives of operation strategy.
Q.8 Explain different stages of purchase cycle
Q.9 Distinguish between product layout and process layout
Part – C

Q. 10  
20 marks

(A). Find the Trend Value and estimate the Sale for the year 2016:

<table>
<thead>
<tr>
<th>Year</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales in Rs. lakhs</td>
<td>15</td>
<td>18</td>
<td>17</td>
<td>19</td>
<td>21</td>
</tr>
</tbody>
</table>

(B) FIND ROC MAXIMUM LEVEL, MINIMUM LEVEL, AVERAGE LEVEL:

Maximum usage – 12000 kg.
Minimum usage – 4000 kg
ROQ – 16000
Lead time – 3 weeks - 5 weeks

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