Operations Management

Date: 14.06.2016

Time: 10.00 a.m. to 1.00 p.m.

Instructions:

1. From Part A – answer all questions (compulsory). Each sub question 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

(Assert all questions Each sub questions carries 1 mark)

Q.1 Give the full form of

   a. LPT
   b. EDD
   c. LOB
   d. JIT
   e. TQM
   f. WWRP
   g. TLV
   h. CAM

Q.2 State True or False.

   i. Operation Design specifies production cycle time.


   iii. Simulation is a forecasting method.
iv. JIT achieves stockless production
v. Bag filters is an equipment to control water pollution.
vi. Diversification is a stability strategy.

vii Genetic Algorithm is a tool for quality control.
viii Ergonomics studies the relation between human capabilities in relation to his work.

Q. 3 Fill in the blanks.
i. Factor Rating method help to identify correct_________.
ii. At break-even point, profit is___________.
iii. ___________is based on biological neural network.
iv. ___________system help in JIT production.
v. ___________system has zero inventory.
vi. Kaizen is a _____________.
vii SQC helps in __________control.
viii Where there is life, there can be___________.

Q. 4 Match the following.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td>i. Learning Curve</td>
<td>a. Forecasting</td>
</tr>
<tr>
<td>ii. Alexander Technique</td>
<td>b. Machine loading chart</td>
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<tr>
<td>iii. Scheduling</td>
<td>c. Thumb operating</td>
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<td>iv. Hoists</td>
<td>d. Quality control</td>
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<tr>
<td>v. Pareto analysis</td>
<td>e. Moving Device</td>
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<tr>
<td>vi. Microphipetters</td>
<td>f. Loading</td>
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<tr>
<td>vii Gant</td>
<td>g. Ergonomics</td>
</tr>
<tr>
<td>viii Time Series</td>
<td>h. Productivity</td>
</tr>
</tbody>
</table>
Part – B 48 marks
(Answer any 3 questions out of 5 questions. Each sub-question carries 16 marks.)

Attempt any Three (16 Marks Each)
Q. 5 Distinguish Between Forecasting and Prediction.
Q. 6 Explain the phases of Purchase Cycle.
Q. 7 Explain in detail Product Life Cycle.
Q. 8 What are the objectives of Good Layout.
Q. 9 Discuss the importance of Production Management.

Part – C (compulsory) Total Marks: 2 x 10 (20 marks)

Q. 10

(A) Year Sales
2010 110
2011 112
2012 118
2013 119
2014 121

Find the Trend in sales and estimate the sale for 2016.

(B) Activity Preceding Activity Time
A ---- 2 Minutes
B ---- 3 Minutes
C B 4 Minutes
D A,C 4 Minutes
E D 2 Minutes
F E 3 Minutes
G E,F 2 Minutes
H G,H 2 Minutes

Draw a network diagram and find the critical path.

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