<?xml version="1.0" standalone="yes" ?> - <NewDataSet> - <instxt>

**<txt id="intro1">Instructions</txt> <txt id="intro2">You have to answer 10 multiple choice questions.</txt> <txt id="intro3">You need to score a minimum of 70% to pass the test.</txt> <txt id="intro4">Click Enter to begin the test.</txt> <txt id="intro5">All the Best!</txt> <txt id="intro6">Assessment - Result</txt> <txt id="intro7">Your score</txt> <txt id="intro8" /> <txt id="intro9">Lean Assessment</txt> <txt id="intro10">Click the Correct Option.</txt> <txt id="intro11">Click Get your certificate.</txt> <txt id="intro12">Sorry! You have failed</txt> <txt id="intro13">Congratulations!</txt>**

</instxt> - <Main>

<QNo>1</QNo> <QUESTION>Defect prevention is</QUESTION> <OPTION1>Mistake proofing</OPTION1> <OPTION2>Iterative testing</OPTION2> <OPTION3>OA</OPTION3> <OPTION4>Early testing</OPTION4> <ANSWER>Mistake proofing</ANSWER>

</Main> - <Main>

**<QNo>2</QNo> <QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the critical starting point of Lean**

thinking</QUESTION> <OPTION1>Project Value</OPTION1> <OPTION2>Customer Value</OPTION2> <OPTION3>Value Addition</OPTION3> <OPTION4>Program value</OPTION4> <ANSWER>Customer Value</ANSWER>

</Main> - <Main>

<QNo>3</QNo> <QUESTION>To get First Hand Information, we need to do</QUESTION> <OPTION1>Visual Control</OPTION1> <OPTION2>Go See Yourself</OPTION2> <OPTION3>Brainstorm</OPTION3> <OPTION4>Continuous Monitoring</OPTION4> <ANSWER>Go See Yourself</ANSWER>

</Main> - <Main>

**<QNo>4</QNo> <QUESTION>Value is always defined from the perspective of the</QUESTION> <OPTION1>Customer</OPTION1>**

<OPTION2>Project</OPTION2> <OPTION3>Product</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>Customer</ANSWER>

</Main> - <Main>

**<QNo>5</QNo> <QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a Visual Control device in the work area indicating a**

process or quality problem</QUESTION> <OPTION1>Andon Board</OPTION1> <OPTION2>SMED</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Andon Board</ANSWER>

</Main> - <Main>

**<QNo>6</QNo> <QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the rate (time per unit of value) at which work**

should proceed through a Value Stream</QUESTION> <OPTION1>Cycle Time</OPTION1> <OPTION2>Activity Time</OPTION2> <OPTION3>Takt Time</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>Takt Time</ANSWER>

</Main> - <Main>

<QNo>7</QNo> <QUESTION>This technique can be used to conduct root cause analysis</QUESTION> <OPTION1>5 Why</OPTION1> <OPTION2>Fishbone diagram</OPTION2> <OPTION3>Cause and Effect diagram</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>All the above</ANSWER>

</Main> - <Main>

<QNo>8</QNo> <QUESTION>Pull system helps in avoiding \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Over production</OPTION1> <OPTION2>Slow production</OPTION2> <OPTION3>Fast production</OPTION3> <OPTION4>None of above</OPTION4> <ANSWER>Over production</ANSWER>

</Main> - <Main>

**<QNo>9</QNo> <QUESTION>Placing everything in its place is part of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_in 5S**

framework</QUESTION> <OPTION1>Sort</OPTION1> <OPTION2>Straighten</OPTION2>

<OPTION3>Shine</OPTION3> <OPTION4>Sustain</OPTION4> <ANSWER>Straighten</ANSWER>

</Main> - <Main>

**<QNo>10</QNo> <QUESTION>Creation of a level schedule by sequencing orders in order to smoothen**

the demand is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Heijunka</OPTION1> <OPTION2>Gemba</OPTION2> <OPTION3>Kaizen</OPTION3> <OPTION4>Hoshin Kanri</OPTION4> <ANSWER>Heijunka</ANSWER>

</Main> - <Main>

**<QNo>11</QNo> <QUESTION>Kaizen as implemented in Lean helps in the following</QUESTION> <OPTION1>Ongoing improvement</OPTION1> <OPTION2>significant onetime improvement</OPTION2> <OPTION3>Ongoing small changes suggested by external process**

**consultant</OPTION3> <OPTION4>One time significant change suggested by external process**

**consultant</OPTION4> <ANSWER>Ongoing improvement</ANSWER>**

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**<QNo>12</QNo> <QUESTION>Continuous organization learning and improvement is ensured through**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Standardization and Automation</OPTION1> <OPTION2>Retrospection and Mistakeproofing</OPTION2> <OPTION3>Pull and Flow</OPTION3> <OPTION4>Retrospection and Kaizen</OPTION4> <ANSWER>Retrospection and Kaizen</ANSWER>**

</Main> - <Main>

**<QNo>13</QNo> <QUESTION>Main purpose of Visual control is to</QUESTION> <OPTION1>Create dashboards and metrics for measurement</OPTION1> <OPTION2>Ensure problems are not hidden</OPTION2> <OPTION3>Help in baselining and measuring the trends</OPTION3> <OPTION4>Showcase to the management on the success stories of the**

**team</OPTION4> <ANSWER>Ensure problems are not hidden</ANSWER>**

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**<QNo>14</QNo> <QUESTION>VSM helps in</QUESTION> <OPTION1>Identifying areas where automation can be implemented</OPTION1>**

**<OPTION2>Identifying areas for putting mistake proofing process</OPTION2> <OPTION3>Identifying value adding and non value adding activity in a**

**process</OPTION3> <OPTION4>Identifying areas where Visual control can be implemented</OPTION4> <ANSWER>Identifying value adding and non value adding activity in a**

process</ANSWER> </Main> - <Main>

<QNo>15</QNo> <QUESTION>PDCA stands for</QUESTION> <OPTION1>Plan-Do-Check-Act</OPTION1> <OPTION2>Plan-Do-Control-Analyze</OPTION2> <OPTION3>Plan-Do-Check-Analyze</OPTION3> <OPTION4>Plan-Do-Control-Act</OPTION4> <ANSWER>Plan-Do-Check-Act</ANSWER>

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**<QNo>16</QNo> <QUESTION>Which of the following is not a root cause analysis**

technique</QUESTION> <OPTION1>Pareto diagram</OPTION1> <OPTION2>5 Why</OPTION2> <OPTION3>Fish Bone Diagram</OPTION3> <OPTION4>Mistake Proofing</OPTION4> <ANSWER>Mistake Proofing</ANSWER>

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**<QNo>17</QNo> <QUESTION>The culture of Lean gives a lot of importance to</QUESTION> <OPTION1>Innovation</OPTION1> <OPTION2>Capability building</OPTION2> <OPTION3>Questioning status-quo</OPTION3> <OPTION4>Showcasing best practices</OPTION4> <ANSWER>Questioning status-quo</ANSWER>**

</Main> - <Main>

**<QNo>18</QNo> <QUESTION>Identifying the necessary and removing unwanted one in any workplace**

is called</QUESTION> <OPTION1>Straighten</OPTION1> <OPTION2>Automation</OPTION2> <OPTION3>Mistake proofing</OPTION3> <OPTION4>Sort</OPTION4> <ANSWER>Sort</ANSWER>

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**<QNo>19</QNo> <QUESTION>What is the typical first step towards identifying the area of waste**

**elimination in a project</QUESTION>**

<OPTION1>Root Cause Analysis</OPTION1> <OPTION2>5S</OPTION2> <OPTION3>Mistake proofing</OPTION3> <OPTION4>Value Stream Mapping</OPTION4> <ANSWER>Value Stream Mapping</ANSWER>

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**<QNo>20</QNo> <QUESTION>Kaizen applied with the right approach helps in achieving</QUESTION> <OPTION1>Quantum improvement</OPTION1> <OPTION2>Incremental improvement</OPTION2> <OPTION3>Sustains the performance</OPTION3> <OPTION4>Marginal improvement</OPTION4> <ANSWER>Incremental improvement</ANSWER>**

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**<QNo>21</QNo> <QUESTION>'Value' in Lean terms is a deliverable to the client which is usable.**

**Identify which statements below qualify for this Value definition</QUESTION> <OPTION1>Value for a recruitment group is each human resource made available to**

**the project teams</OPTION1> <OPTION2>Value for a Maintenance project is the Bugs serviced per**

**release</OPTION2> <OPTION3>Value for a Conversion project is every web page converted</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>**

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**<QNo>22</QNo> <QUESTION>Identify Type 2 "Waste" in these scenarios</QUESTION> <OPTION1>Waiting and searching for resources in the lab during reproduction and**

**testing</OPTION1> <OPTION2>Capturing relevant information in defect tracker</OPTION2> <OPTION3>Updating knowledge base</OPTION3> <OPTION4>Frequent build cycles, frequent code reviews and early testing</OPTION4> <ANSWER>Waiting and searching for resources in the lab during reproduction and**

testing</ANSWER> </Main> - <Main>

**<QNo>23</QNo> <QUESTION>Workload leveling is</QUESTION> <OPTION1>Assiging important tasks to key resources only</OPTION1> <OPTION2>Allocating the tasks as and when they queue up</OPTION2> <OPTION3>Allocating the right tasks to team members based on effort,complexity**

**estimates, skill level</OPTION3> <OPTION4>Dividing and assigning the same tasks to multiple people</OPTION4> <ANSWER>Allocating the right tasks to team members based on effort,complexity**

estimates, skill level</ANSWER> </Main> - <Main>

**<QNo>24</QNo> <QUESTION>What is Lean?</QUESTION> <OPTION1>Creating value from the perspective of a customer</OPTION1> <OPTION2>Improving processes and operation</OPTION2> <OPTION3>A culture of continuous improvement</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>**

</Main> - <Main>

**<QNo>25</QNo> <QUESTION>When should I start implementing Lean principles in a**

**project?</QUESTION> <OPTION1>When the organization mandates</OPTION1> <OPTION2>When there is a problem in the project</OPTION2> <OPTION3>When the project gets kicked off</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>When the project gets kicked off</ANSWER>**

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**<QNo>26</QNo> <QUESTION>During which phase of the project can Lean be**

implemented?</QUESTION> <OPTION1>Requirement phase</OPTION1> <OPTION2>Design phase</OPTION2> <OPTION3>CUT & ST phases</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>

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**<QNo>27</QNo> <QUESTION>The delivery team uses white boards to monitor the status of the tickets,**

**automates routine jobs, maintains checklist and implements learning from previous releases. The team does not have a knowledge of Lean and has never attended any Lean training sessions. Is Lean being practiced in the project</QUESTION> <OPTION1>Yes</OPTION1> <OPTION2>No</OPTION2> <OPTION3>Can't answer</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>Yes</ANSWER>**

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**<QNo>28</QNo> <QUESTION>The management decisions in a company practicing Lean philosophy is**

**based on</QUESTION> <OPTION1>Waste elimination</OPTION1> <OPTION2>Short term financial gains</OPTION2> <OPTION3>Long term thinking even at short term financial expense</OPTION3> <OPTION4>Medium term thinking but with high operating margins</OPTION4> <ANSWER>Long term thinking even at short term financial expense</ANSWER>**

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**<QNo>29</QNo> <QUESTION>Which of the following are two key pillars of the Toyota Production**

**System?</QUESTION> <OPTION1>Just-in-Time and Waste Elimination</OPTION1> <OPTION2>Jidoka and Just in Time</OPTION2> <OPTION3>Visual Management and Kaizen</OPTION3> <OPTION4>Standardisation and Leveled Production</OPTION4> <ANSWER>Jidoka and Just in Time</ANSWER>**

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**<QNo>30</QNo> <QUESTION>The culture of stopping when there is a quality problem is**

called</QUESTION> <OPTION1>Waste elimination</OPTION1> <OPTION2>Standardisation</OPTION2> <OPTION3>Jidoka</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>Jidoka</ANSWER>

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**<QNo>31</QNo> <QUESTION>Which of the following is a technique involving simple inexpensive**

**automatic mechanisms or manual inspection in a station, that makes the quality issues obvious at a glance?</QUESTION> <OPTION1>Visual Control</OPTION1> <OPTION2>Value Steam Mapping</OPTION2> <OPTION3>both 1 and 2</OPTION3> <OPTION4>Poka Yoke</OPTION4> <ANSWER>Poka Yoke</ANSWER>**

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<QNo>32</QNo> <QUESTION>The roots of Lean thinking can be traced back to</QUESTION> <OPTION1>Harvard</OPTION1> <OPTION2>GE</OPTION2> <OPTION3>Honda</OPTION3> <OPTION4>Toyota</OPTION4> <ANSWER>Toyota</ANSWER>

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**<QNo>33</QNo> <QUESTION>Lean principle is based on management decisions adopting a**

\_\_\_\_\_\_\_\_\_\_\_\_\_ philosophy"</QUESTION> <OPTION1>Short Term</OPTION1> <OPTION2>Medium Term</OPTION2> <OPTION3>Long Term</OPTION3> <OPTION4>All of the above</OPTION4>

<ANSWER>Long Term</ANSWER>

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**<QNo>34</QNo> <QUESTION>What is the main purpose of Visual Controls?</QUESTION> <OPTION1>To show status to upper management</OPTION1> <OPTION2>To show status to customer</OPTION2> <OPTION3>To bring out operational problems affecting for early**

**resolution</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>To bring out operational problems affecting for early**

resolution</ANSWER> </Main> - <Main>

<QNo>35</QNo> <QUESTION>Which of the following is NOT part of 5 S?</QUESTION> <OPTION1>SORT</OPTION1> <OPTION2>Straighten</OPTION2> <OPTION3>Soften</OPTION3> <OPTION4>Standardize</OPTION4> <ANSWER>Soften</ANSWER>

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**<QNo>36</QNo> <QUESTION>Takt time is a ratio of the 'Net available time' to**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Total Supply</OPTION1> <OPTION2>Customer demand</OPTION2> <OPTION3>Both</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Customer demand</ANSWER>

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<QNo>37</QNo> <QUESTION>Poka Yoke is \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Mistake Proofing</OPTION1> <OPTION2>Visual Control</OPTION2> <OPTION3>Standarization</OPTION3> <OPTION4>None of above</OPTION4> <ANSWER>Mistake Proofing</ANSWER>

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<QNo>38</QNo> <QUESTION>The "5 Why?" is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ technique</QUESTION> <OPTION1>5 S</OPTION1> <OPTION2>RCA</OPTION2> <OPTION3>DSM</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>RCA</ANSWER>

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<QNo>39</QNo> <QUESTION>Lean thinking advocates \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Push Systems</OPTION1> <OPTION2>Pull Systems</OPTION2> <OPTION3>both</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Pull Systems</ANSWER>

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<QNo>40</QNo> <QUESTION>Andon board is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Visual Control</OPTION1> <OPTION2>Dashboard</OPTION2> <OPTION3>Network diagram</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>Visual Control</ANSWER>

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**<QNo>41</QNo> <QUESTION>To reduce test setup change-over time, you considered SMED technique.**

Which of the following principles can help?</QUESTION> <OPTION1>Displace</OPTION1> <OPTION2>Eliminiate</OPTION2> <OPTION3>Standardize</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>

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**<QNo>42</QNo> <QUESTION>Customer expects the team to test 10 features in 20 working days. What**

is the takt time?</QUESTION> <OPTION1>10 features/month</OPTION1> <OPTION2>2 days/feature</OPTION2> <OPTION3>0.5 features/day</OPTION3> <OPTION4>None of above</OPTION4> <ANSWER>2 days/feature</ANSWER>

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**<QNo>43</QNo> <QUESTION>Which of the following is a part of the Lean philosophy?</QUESTION> <OPTION1>Management decisions based on a long term perspective</OPTION1> <OPTION2>Stop when there is a quality problem</OPTION2> <OPTION3>Leaders going to the actual workplace to see and understand**

throughly</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>

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<QNo>44</QNo> <QUESTION>Following are categories of waste</QUESTION> <OPTION1>Overproduction</OPTION1> <OPTION2>Transportation</OPTION2> <OPTION3>Motion</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>

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**<QNo>45</QNo> <QUESTION>An effective way to make team memebrs aware of progress made and**

currents status is through</QUESTION> <OPTION1>Visual Boards</OPTION1> <OPTION2>Poka - yoke</OPTION2> <OPTION3>Mura</OPTION3> <OPTION4>Muri</OPTION4> <ANSWER>Visual Boards</ANSWER>

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<QNo>46</QNo> <QUESTION>Mistake proofing is</QUESTION> <OPTION1>Andon</OPTION1> <OPTION2>Poka - yoke</OPTION2> <OPTION3>Mura</OPTION3> <OPTION4>Muri</OPTION4> <ANSWER>Poka - yoke</ANSWER>

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<QNo>47</QNo> <QUESTION>Over production is avoided by using \_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Pull system</OPTION1> <OPTION2>Poka - yoke</OPTION2> <OPTION3>Mura</OPTION3> <OPTION4>Push system</OPTION4> <ANSWER>Pull system</ANSWER>

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**<QNo>48</QNo> <QUESTION>How many Lean principles are there according to Jeffrey Liker as**

presented in "The Toyoto Way"</QUESTION> <OPTION1>5</OPTION1> <OPTION2>10</OPTION2> <OPTION3>14</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>14</ANSWER>

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<QNo>49</QNo>

**<QUESTION>How many categories of wastes can be identified as per the Toyota**

Production System?</QUESTION> <OPTION1>7</OPTION1> <OPTION2>10</OPTION2> <OPTION3>100</OPTION3> <OPTION4>20</OPTION4> <ANSWER>7</ANSWER>

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**<QNo>50</QNo> <QUESTION>"Upstream should not produce anything till downstream asks for it" is a**

part of which Lean principle</QUESTION> <OPTION1>Poka- yoke</OPTION1> <OPTION2>DSM</OPTION2> <OPTION3>Push Mechanismans</OPTION3> <OPTION4>Pull mechanism</OPTION4> <ANSWER>Pull mechanism</ANSWER>

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**<QNo>51</QNo> <QUESTION>The practice in 5S framework by which the work place efficiency is**

maintained is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Sort</OPTION1> <OPTION2>Shine</OPTION2> <OPTION3>Sustain</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>Sustain</ANSWER>

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**<QNo>52</QNo> <QUESTION>"Pace of production to meet customer demand" is related to**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Takt Time</OPTION1> <OPTION2>Talk Time</OPTION2> <OPTION3>Delay time</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>Takt Time</ANSWER>

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**<QNo>53</QNo> <QUESTION>Spending time to finding information can be mapped to**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waste</QUESTION> <OPTION1>Overproduction</OPTION1> <OPTION2>Inventory</OPTION2> <OPTION3>Motion</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>Motion</ANSWER>

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**<QNo>54</QNo> <QUESTION>A tool in the work area giving the current status of the**

work</QUESTION> <OPTION1>Visual Control Board</OPTION1> <OPTION2>SMED</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Visual Control Board</ANSWER>

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**<QNo>55</QNo> <QUESTION>Employing tools to do work otherwise done by people results in**

reduction of \_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Efforts</OPTION1> <OPTION2>Schedule</OPTION2> <OPTION3>Defects</OPTION3> <OPTION4>1, 2 and 3</OPTION4> <ANSWER>1, 2 and 3</ANSWER>

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**<QNo>56</QNo> <QUESTION>Automated detection and stopping when a defect occurs is related to**

\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Automation</OPTION1> <OPTION2>Jidoka (autonomation)</OPTION2> <OPTION3>Genchi Genbutsu</OPTION3> <OPTION4>Visual Controls</OPTION4> <ANSWER>Jidoka (autonomation)</ANSWER>

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**<QNo>57</QNo> <QUESTION>In TPS, high levels of quality is achieved by the principles**

of</QUESTION> <OPTION1>Jidoka</OPTION1> <OPTION2>Poka Yoke</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Both 1 and 2</ANSWER>

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**<QNo>58</QNo> <QUESTION>According to Lean thinking, problems should be addressed**

at</QUESTION> <OPTION1>Root Cause level</OPTION1> <OPTION2>Manager level</OPTION2> <OPTION3>Operator level</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>Root Cause level</ANSWER>

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<QNo>59</QNo> <QUESTION>Kaizen can result in an improvement in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Quality</OPTION1> <OPTION2>Throughput</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Both 1 and 2</ANSWER>

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**<QNo>60</QNo> <QUESTION>Problems identified are displayed for everyone's attention rather than**

covering up</QUESTION> <OPTION1>Make the problem visibile</OPTION1> <OPTION2>Make it fast</OPTION2> <OPTION3>Make it beautiful</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Make the problem visibile</ANSWER>

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**<QNo>61</QNo> <QUESTION>Any activity that consumes resources, but does not create value is**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Muda</OPTION1> <OPTION2>Mura</OPTION2> <OPTION3>Muri</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>Muda</ANSWER>

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**<QNo>62</QNo> <QUESTION>Tasks with clear specification on the input, process, time and output are**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Fixed</OPTION1> <OPTION2>standardized</OPTION2> <OPTION3>Designed</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>standardized</ANSWER>

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**<QNo>63</QNo> <QUESTION>Identification of all activities occuring along the life cycle of the product**

is \_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Value Creation</OPTION1> <OPTION2>Value Stream Mapping</OPTION2> <OPTION3>Customer Value</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Value Stream Mapping</ANSWER>

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<QNo>64</QNo> <QUESTION>Making more parts than you can sell is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Overprocessing</OPTION1> <OPTION2>Overproduction</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Overproduction</ANSWER>

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**<QNo>65</QNo> <QUESTION>Optimization of current state map gives the**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Optimized map</OPTION1> <OPTION2>Value map</OPTION2> <OPTION3>Future state map</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>Future state map</ANSWER>

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**<QNo>66</QNo> <QUESTION>In the 5 Why analysis, if the root cause is not identified at the 5th Why,**

one should \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Stop</OPTION1> <OPTION2>Start afresh</OPTION2> <OPTION3>Continue</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Continue</ANSWER>

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<QNo>67</QNo> <QUESTION>The slowest operation in a process is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Work stopper</OPTION1> <OPTION2>Bottleneck</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Bottleneck</ANSWER>

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**<QNo>68</QNo> <QUESTION>What is the ongoing process/philosophy of doing things better, faster**

and lower cost?</QUESTION> <OPTION1>Continuous Processs</OPTION1> <OPTION2>Continuous Engineering</OPTION2> <OPTION3>Continuous Improvement</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Continuous Improvement</ANSWER>

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**<QNo>69</QNo> <QUESTION>Giving employees more responsibility, authority and accountability for effecting improvements that are within their purview in the daily processes is Employee \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Empowerment</OPTION1> <OPTION2>Engagement</OPTION2> <OPTION3>Endearment</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Empowerment</ANSWER>**

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<QNo>70</QNo> <QUESTION>Lean practices optimizes the</QUESTION> <OPTION1>Cost</OPTION1> <OPTION2>Qualitty</OPTION2> <OPTION3>Schedule</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>All the above</ANSWER>

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**<QNo>71</QNo> <QUESTION>Achieving predictability of the outcome and making it repeatable is**

**ensured through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Concurrent Engineering</OPTION1> <OPTION2>Predictive Engineering</OPTION2> <OPTION3>Standardization</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>Standardization</ANSWER>**

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**<QNo>72</QNo> <QUESTION>Genchi Genbatsu is part of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ category in Liker's 14**

principle model</QUESTION> <OPTION1>Process</OPTION1> <OPTION2>People and Partners</OPTION2> <OPTION3>Problem Solving</OPTION3> <OPTION4>Philosophy</OPTION4> <ANSWER>Problem Solving</ANSWER>

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<QNo>73</QNo> <QUESTION>What is Hansei?</QUESTION> <OPTION1>Reflection</OPTION1> <OPTION2>Refraction</OPTION2> <OPTION3>Retraction</OPTION3> <OPTION4>Renovation</OPTION4> <ANSWER>Reflection</ANSWER>

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**<QNo>74</QNo> <QUESTION>Problems should not remain hidden. They should be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

early.</QUESTION> <OPTION1>Standardized</OPTION1> <OPTION2>Optimized</OPTION2> <OPTION3>Surfaced</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>Surfaced</ANSWER>

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**<QNo>75</QNo> <QUESTION>An engineer fixes a bug request from the customer. The customer value**

here is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Fixed Bug</OPTION1> <OPTION2>No side effect</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Both 1 and 2</ANSWER>

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<QNo>76</QNo> <QUESTION>Attributes of value deliverables areTimelinessCost</QUESTION> <OPTION1>Quality</OPTION1> <OPTION2>Timeliness</OPTION2> <OPTION3>Cost</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>All the above</ANSWER>

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**<QNo>77</QNo> <QUESTION>According to Lean thinking, leaders should work with first hand**

information from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by direct observation.</QUESTION> <OPTION1>Customers</OPTION1> <OPTION2>Workplace</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Workplace</ANSWER>

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<QNo>78</QNo> <QUESTION>Which of the following are examples for Muda?</QUESTION> <OPTION1>Hand off</OPTION1> <OPTION2>Task Switching</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Both 1 and 2</ANSWER>

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<QNo>79</QNo>

**<QUESTION>In a maintenance project with a 3 month release cycle, the team idles during the first six weeks due to lack of clarity. The customer expects team to work as per the planned efforts in the remaining 6 weeks. This will lead to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Task switching</OPTION1> <OPTION2>Overload</OPTION2> <OPTION3>Poor quality</OPTION3> <OPTION4>Both 2 and 3</OPTION4> <ANSWER>Both 2 and 3</ANSWER>**

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**<QNo>80</QNo> <QUESTION>The purpose of VSM is to \_\_\_\_\_\_\_\_\_\_\_\_ and eliminate**

waste</QUESTION> <OPTION1>Standardize</OPTION1> <OPTION2>Empower</OPTION2> <OPTION3>Identify</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Identify</ANSWER>

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**<QNo>81</QNo> <QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the time taken for those activities that actually**

**transform the product/service in a way that the customer is willing to pay for</QUESTION> <OPTION1>Takt Time</OPTION1> <OPTION2>Activity Time</OPTION2> <OPTION3>Cycle Time</OPTION3> <OPTION4>Value Added Time</OPTION4> <ANSWER>Value Added Time</ANSWER>**

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**<QNo>82</QNo> <QUESTION>Those activities that are not mandatory to provide what customer wants**

are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Important</OPTION1> <OPTION2>Non Value Add</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Non Value Add</ANSWER>

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**<QNo>83</QNo> <QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an activity that transforms the input, thereby**

bringing it closer to the form required by a customer</QUESTION> <OPTION1>Value Add</OPTION1> <OPTION2>Muda</OPTION2> <OPTION3>Muri</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Value Add</ANSWER>

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**<QNo>84</QNo> <QUESTION>Mechanisms (other than inspection at a work place) to achieve in-**

station quality by prevention is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Jidoka</OPTION1> <OPTION2>Heijunka</OPTION2> <OPTION3>Poka Yoke</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>Poka Yoke</ANSWER>

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<QNo>85</QNo> <QUESTION>Principles of 5S aim at achieving</QUESTION> <OPTION1>Efficient work place</OPTION1> <OPTION2>Jidoka</OPTION2> <OPTION3>Efficient task switching</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Efficient work place</ANSWER>

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<QNo>86</QNo> <QUESTION>Standardization helps to reduce variance in</QUESTION> <OPTION1>Cycle time</OPTION1> <OPTION2>Quality</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Both 1 and 2</ANSWER>

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<QNo>87</QNo> <QUESTION>Standardized work and environment are the basis for</QUESTION> <OPTION1>Continuous improvement</OPTION1> <OPTION2>Defect prevention</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Continous Improvement</ANSWER>

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**<QNo>88</QNo> <QUESTION>An operating model with in-station quality is found in</QUESTION> <OPTION1>Mass production approach</OPTION1> <OPTION2>Toyota Production System</OPTION2> <OPTION3>Both 1 and 2</OPTION3> <OPTION4>None</OPTION4> <ANSWER>Toyota Production System</ANSWER>**

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<QNo>89</QNo>

**<QUESTION>Use of code analysis tools as the code is developed is an example of**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Concurrent Engineering</OPTION1> <OPTION2>In station quality</OPTION2> <OPTION3>first things first</OPTION3> <OPTION4>None</OPTION4> <ANSWER>In station quality</ANSWER>

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**<QNo>90</QNo> <QUESTION>Kaizen is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>An activity that causes an incidental problem</OPTION1> <OPTION2>An activity that causes a recurrent problem</OPTION2> <OPTION3>An activity that enables continuous improvement</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>An activity that enables continuous improvement</ANSWER>**

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**<QNo>91</QNo> <QUESTION>The 5 Ws of root cause analysis are</QUESTION> <OPTION1>Who, what, where, when, why</OPTION1> <OPTION2>What, where, when, who, why</OPTION2> <OPTION3>Who, who, who, who, who</OPTION3> <OPTION4>Why, why, why, why, why</OPTION4> <ANSWER>Why, why, why, why, why</ANSWER>**

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**<QNo>92</QNo> <QUESTION>Automatically stopping the process when something is wrong and then**

fixing the problems on the line itself as they occur is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Heijunka</OPTION1> <OPTION2>Jidoka</OPTION2> <OPTION3>

</OPTION3> <OPTION4>Kanban</OPTION4> <ANSWER>Jidoka</ANSWER>

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**<QNo>93</QNo> <QUESTION>Which of the following are examples of Muda (waste) in the process**

**which should be eliminated?</QUESTION> <OPTION1>Doing work manually when it can be automated</OPTION1> <OPTION2>Equipment not working</OPTION2> <OPTION3>Spending efforts in processing repetitive issues</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>**

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<QNo>94</QNo>

<QUESTION>Lean is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Action Oriented</OPTION1> <OPTION2>Continuous Improvement</OPTION2> <OPTION3>Process toolkit</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>

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<QNo>95</QNo> <QUESTION>Lean is not \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Short term gain</OPTION1> <OPTION2>Problem Solver</OPTION2> <OPTION3>Action Oriented</OPTION3> <OPTION4>Continous Improvement</OPTION4> <ANSWER>Short term gain</ANSWER>

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<QNo>96</QNo> <QUESTION>The deciding factors for automation are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Feasibility</OPTION1> <OPTION2>Return of Investment</OPTION2> <OPTION3>Frequency</OPTION3> <OPTION4>All the above</OPTION4> <ANSWER>All of the above</ANSWER>

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**<QNo>97</QNo> <QUESTION>Understanding the actual situation is known as**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Capacity Planning</OPTION1> <OPTION2>Mistake Proofing</OPTION2> <OPTION3>SS</OPTION3> <OPTION4>Go and see Yourself</OPTION4> <ANSWER>Go and see Yourself</ANSWER>

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<QNo>98</QNo> <QUESTION>Use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to reduce setup/changeover time</QUESTION> <OPTION1>SMED</OPTION1> <OPTION2>5S</OPTION2> <OPTION3>RCA</OPTION3> <OPTION4>VSM</OPTION4> <ANSWER>SMED</ANSWER>

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<QNo>99</QNo> <QUESTION>Issue log or KEDB helps in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Mistake proofing</OPTION1> <OPTION2>Automation</OPTION2>

<OPTION3>VSM</OPTION3> <OPTION4>Competency management</OPTION4> <ANSWER>Mistake proofing</ANSWER>

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**<QNo>100</QNo> <QUESTION>The PM defines the coding standard for a new technology before the**

**development starts. Based on these guidelines, he also reconfigures the code review tool. Choose the Lean tenets PM has applied</QUESTION> <OPTION1>Standardization & Mistake proofing</OPTION1> <OPTION2>Standardization & Statistical Analysis</OPTION2> <OPTION3>Only Standardization</OPTION3> <OPTION4>5S and Mistake proofing</OPTION4> <ANSWER>Standardization & Mistake proofing</ANSWER>**

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**<QNo>101</QNo> <QUESTION>What are the 5 STEPS of 5S?</QUESTION> <OPTION1>Shine, Solve, Sustain, Sort, Standardize</OPTION1> <OPTION2>Sustain, Sort, Standardize, Set, Shine</OPTION2> <OPTION3>Sort, Straighten, Shine, Standardize, Sustain</OPTION3> <OPTION4>Sort, Sustain, Sushi, Shine, Standardize</OPTION4> <ANSWER>Sort, Straighten, Shine, Standardize, Sustain</ANSWER>**

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**<QNo>102</QNo> <QUESTION>Which statements defines "VALUE"?</QUESTION> <OPTION1>The customer has to be willing to pay for the activity</OPTION1> <OPTION2>The activity must "directly transform" the item or person flowing through**

**the process into what the customer is willing to pay for.</OPTION2> <OPTION3>The activity must meet all expected requirements on the first**

attempt</OPTION3> <OPTION4>All of the above</OPTION4> <ANSWER>All of the above</ANSWER>

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<QNo>103</QNo> <QUESTION>A checklist is a simple example for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Mistake proofing</OPTION1> <OPTION2>Standardization</OPTION2> <OPTION3>SMED</OPTION3> <OPTION4>5S</OPTION4> <ANSWER>Mistake Proofing</ANSWER>

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**<QNo>104</QNo> <QUESTION>What is the first step in the VSM?</QUESTION> <OPTION1>Draw the Value stream mapping(As-IS)</OPTION1> <OPTION2>Identify the customer Value deliverable</OPTION2>**

**<OPTION3>Remove the wastes</OPTION3> <OPTION4>Identify the Value added and Non value added activities</OPTION4> <ANSWER>Identify the customer Value deliverable</ANSWER>**

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**<QNo>105</QNo> <QUESTION>In a project X, few resources are overburdened due to disparity of**

competency in teams. This situation is a result of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Muda</OPTION1> <OPTION2>Muri</OPTION2> <OPTION3>Mura</OPTION3> <ANSWER>Muri</ANSWER>

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**<QNo>106</QNo> <QUESTION>Which of the following tenets is used for work place**

management?</QUESTION> <OPTION1>SMED</OPTION1> <OPTION2>5S</OPTION2> <OPTION3>VSM</OPTION3> <OPTION4>DSM</OPTION4> <ANSWER>5S</ANSWER>

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**<QNo>107</QNo> <QUESTION>Which of the following Lean methodologies can be used to identify the**

waste in the process?</QUESTION> <OPTION1>DSM</OPTION1> <OPTION2>5S</OPTION2> <OPTION3>VSM</OPTION3> <OPTION4>CMMI</OPTION4> <ANSWER>VSM</ANSWER>

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**<QNo>108</QNo> <QUESTION>Identify the applicable tenet used for identifying the root cause of the**

problem</QUESTION> <OPTION1>5S</OPTION1> <OPTION2>Statistical Analysis</OPTION2> <OPTION3>5WHY</OPTION3> <OPTION4>PDCA</OPTION4> <ANSWER>5 WHY</ANSWER>

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**<QNo>109</QNo> <QUESTION>In an application maintenance project, the team was following the**

**practice of placing a Red flag in front of the engineer who was stuck up with a problem related to resolving the incident. This is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Standardization</OPTION1>**

<OPTION2>Kanban</OPTION2> <OPTION3>Andon</OPTION3> <OPTION4>None of the above</OPTION4> <ANSWER>Andon</ANSWER>

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<QNo>110</QNo> <QUESTION>How many guiding principles does Lean have?</QUESTION> <OPTION1>11</OPTION1> <OPTION2>7</OPTION2> <OPTION3>12</OPTION3> <OPTION4>14</OPTION4> <ANSWER>14</ANSWER>

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**<QNo>111</QNo> <QUESTION>\_\_\_\_\_\_\_\_\_\_\_\_\_ provides a complete visibility of all work items and**

status in the team</QUESTION> <OPTION1>Standardization</OPTION1> <OPTION2>Mistake Proofing</OPTION2> <OPTION3>Visual Control</OPTION3> <OPTION4>ecube</OPTION4> <ANSWER>Visual Control</ANSWER>

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**<QNo>112</QNo> <QUESTION>TPS is an integrated socio-technical system, developed by**

\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Ford</OPTION1> <OPTION2>Toyota</OPTION2> <OPTION3>Wipro</OPTION3> <OPTION4>IBM</OPTION4> <ANSWER>Toyota</ANSWER>

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<QNo>113</QNo> <QUESTION>Which of the following is not part of 5S?</QUESTION> <OPTION1>Sort</OPTION1> <OPTION2>Sustain</OPTION2> <OPTION3>Shine</OPTION3> <OPTION4>Sequence</OPTION4> <ANSWER>Sequence</ANSWER>

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**<QNo>114</QNo> <QUESTION>According to Womack Lean thinking consists of \_\_\_\_\_\_\_\_\_\_ core**

principles</QUESTION> <OPTION1>3</OPTION1> <OPTION2>7</OPTION2>

<OPTION3>14</OPTION3> <OPTION4>5</OPTION4> <ANSWER>5</ANSWER>

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**<QNo>115</QNo> <QUESTION>Which of these are not a core Lean principle according to**

Womack</QUESTION> <OPTION1>Pull</OPTION1> <OPTION2>Flow</OPTION2> <OPTION3>Value</OPTION3> <OPTION4>Push</OPTION4> <ANSWER>Push</ANSWER>

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**<QNo>116</QNo> <QUESTION>The principle of flow emphasizes on \_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>reduction in batch size</OPTION1> <OPTION2>Moving to next phase as quickly as possible</OPTION2> <OPTION3>Individual productivity</OPTION3> <OPTION4>Customer satisfaction</OPTION4> <ANSWER>reduction in batch size</ANSWER>**

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**<QNo>117</QNo> <QUESTION>SMED stands for \_\_\_\_\_\_\_\_\_\_\_\_\_</QUESTION> <OPTION1>Single Minute Exchange of Dies</OPTION1> <OPTION2>Simply More Energy Daily</OPTION2> <OPTION3>Simplest Most Effective Design</OPTION3> <OPTION4>Sampling Method for Effort Deviation</OPTION4> <ANSWER>Single Minute Exchange of Dies</ANSWER>**

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