<DE/EJ/ET/EN/EX/EQ/IE/IS/IC >: <22636> : <Emerging Trends in Electronics >: <Digital Factory>: <UO4b.2>: <Assessments>: <Formative>

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| Set 1: Question No 1 | Set 1: Question No 2 | Set 1: Question No 3 |
| ----------------- is the direct contact  between two smart objects when they  share information instantaneously  without intermediaries. | Human Machine Interface [HMI] is used in | Operator Interface Terminal [OIT] are used |
| Recall/ Remembering | Understanding | Application |
| 1. Device to Device | 1. Control and monitor machines | a) Development |
| 1. Device to Gateway | b) Processes | b) Deployment |
| 1. Gateway to Data systems | c)Smart Buildings | c) Maintenance |
| 1. Between data systems | d)All of above | d) All of above |
| Ans: <a> | Ans: <b> | Ans: <d> |

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| Set 2: Question No 1 | Set 2: Question No 2 | Set 2: Question No 3 |
| Sensor –PLC-SCADA- Cloud Data route' : | Correlate the technologies / devices /  functions between Group A and Group B:  Group A  a. PLC b. Gateways c. Cloud d. Things  Group B:  i. Sensor ii. SCADA iii. Collate and transfer  data iv. Big data | \_\_\_\_ is an part of IoT ecosystem that handles communication with local servers and remote users. |
| Recall/ Remembering | Understanding | Application |
| a) parameter chart, Computer,PLCSCADA, Cloud. | a) a-ii, b-iii, c-iv, d-i | a) Edge Tier |
| b) PLC- SCADA, Computer, Cloud, Cloud and on premises applications. | b) a- ii, b-iv, c-i, d-iii | b) Application layer |
| c) PLC, SCADA, Gateway, Cloud and on premises applications. | c) a- i, b-ii, c-iii, d-iv | c) Cloud Tier |
| d) PLC, SCADA, Cloud, On premises applications | d) a-ii, b-iv, c-iii, d-i | d) Data way Tier |
| Ans: <b> | Ans: <a> | Ans: <d> |