ISA-95 Quizz

Name: _____ Date: _____

#
Question
Initial
Final

1

The ISA-95 standard

a) forces uses to abandon their current way of handling integration
b) emphasizes good practices for the integration of systems.
c) can only be applied to automated systems
d) applies to all types of manufacturing

2

What are the three main resource types typically used in manufacturing activities?

a)
b)
c)
a)
b)
c)

3

A function is included in the control domain if: *(list all that apply)*

1) It is critical to maintaining regulatory compliance.
2) It impacts the design and construction of a facility.
3) It impacts the operational phase of the facilities life.
4) It is critical to plant reliability.

4

Identify three consistent levels of manufacturing operations management.

a) Operating system, machine interface, Internet.
b) Planning, execution, device control.
c) MRP II, planning, enterprise requirements.
d) Inventory, movement, planning.

5

Identify four core functions of manufacturing operations management.

a) Planning, receiving, production, rework.
b) Purchasing, sales, engineering, manufacturing
c) Work order dispatching, production tracking, production data collection, product definition management.
d) Forecasting, MRP, scheduling, data input.

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Identify four support functions of manufacturing operations management.

a) Forecasting, material requirements, maintenance, marketing.
b) documentation management, quality assurance, maintenance management, configuration management
c) Receiving, inspection, quality, logistics.
d) PLC, computer, input station, data collection.

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Identify four expected benefits of manufacturing operations management.

a) Reduced cycle times, reduced inventory, less paperwork, current data.
b) Increased sales, better ROI, improved capacity, better networking.
c) Improved morale, lower overhead, improved logistics, less product rejection.
d) Less inventory, employee reduction, fewer plants, higher prices.

8

Identify four components of information related requirements for manufacturing operations management

a) Programmable controller, computer, HMI, network.
b) Logistics, inventory, programming, rework.
c) As is condition, to be vision, hardware preferences, performance requirements.
d) Number of users, screen layouts, data entry formats, paperwork issues.

9

What departments should be consulted in designing information support to manufacturing operations management?

a) Sales, engineering, manufacturing.
b) MIS, scheduling, purchasing, quality assurance.
c) Maintenance, dispatching, enterprise planning supervisor.

10

What at are the boundaries occurring within between logistics and manufacturing operations *(list all that apply)*

1) Lines of responsibility
2) Technical lines of integration
3) Manual and automated systems

11

Select all of the correct terms used to define the types of capabilities defined in ISA-95 *(list all that apply)*

1) Committed capability
2) Used capability
3) Unavailable capability
4) Unattainable capability
5) Available capability
6) Free capability
7) Current capability

12

A material definition may belong to multiple classes.

a) TRUE
b) FALSE

13

A material lot may have multiple material definition.

a) TRUE
b) FALSE

14

A material sublot may be just a single item.

a) TRUE

b) FALSE

17

There may be more than one production response for a production request.

a) TRUE

b) FALSE

18

There is at least one segment requirement in a production request

a) TRUE

b) FALSE

19

Identify 3 maturity levels of information support to manufacturing operations management:

1)

2)

3)

1)

2)

3)

20

What are the 4 main categories of manufacturing operations

1)

2)

3)

4)

1)

2)

3)

4)

21

What are the 8 main activities of manufacturing operations management

1)

2)

3)

4)

5)

6)
7)
8)
1)
2)
3)
4)
5)
6)
7)
8)

22

Name the equivalent concepts of ISA-88 process cell and unit for generic, continous, discrete and storage type of facilities

Batch/ (ISA-88	Generic	Continuous	Discrete	Storage
Process Cell	Cg	Cc	Cd	Cs
Unit	Ug	Uc	Ud	Us

Cg:
Cc:
Cd:
Cs:
Ug:
Uc:
Ud:
Us:
Cg:
Cc:
Cd:
Cs:
Ug:
Uc:
Ud:
Us:

23

A process segment

a) Is based on the physical breakdown of the facility
b) Defines a capability of the facility and associated resources
c) Defines the requirements to accomplish an operations activity independently of the target facility

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An operations segment :

a) Is based on the physical breakdown of the facility
b) Defines a capability of the facility and associated resources
c) Defines the requirements to accomplish an operations activity independently of the target facility