

تعداد سوالات: تستی: ۳۰ تشریحی: ---  
زمان آزمون (دقیقه): تستی: ۷۵ تشریحی: ---

پیام نور  
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نام درس: زبان تخصصی  
رشته تحصیلی / کد درس: مهندسی صنایع (ستنی و تجمیع):

مجاز است.

استفاده از:

کد سری سؤال: یک (۱)

امام خمینی (ره): این محرم و صفر است که اسلام را زنده نگه داشته است.

**FILL IN THE BLANKS WITH THE APPROPRIATE FORM OF THE WORDS GIVEN:**

1. In the absence of self-imposed in an in ..... an industrial engineering organization, the need for external control is maximized. (criticize)

- a. criticize  
b. critique  
c. criticized  
d. to criticize

2. With a simple analysis, a ..... seeks to discover those variables which have the greatest impact on the forecast variables (forecast)

- a. forecasting  
b. forecasted  
c. forecast  
d. forecaster

3. Most of our scheduling is based on the crises of the day and the best ..... into the future. (visualize)

- a. visual  
b. visualized  
c. visualization  
d. visualize

4. In industrial engineering, methods give the best solution based on the value criterion chosen. (optimize)

- a. optimization  
b. optimum  
c. optimal  
d. optimized

5. In FMS can be achieved through the use of NC system. (flexible)

- a. flexible  
b. to be flexible  
c. flexibly  
d. flexibility

6. The cell mayor may not include ..... material handling. (automate)

- a. automation  
b. automating  
c. automate  
d. automated

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**Read the following text, and then answer the questions.**

In the early days of production and inventory control, order launching and expediting were the primary means of scheduling. We ran our manufacturing operations by using the informal the system of shortage lists and hot tags. The order point was the first method used to answer the question 'when to order' by taking the average usage of an item, projecting it over the normal lead time, and then adding in a safety stock to protect against greater than average demand. The problem was that the order point did not simulate reality. It looked backwards and did not account for the constant changes in manufacturing business. If we are low on an item, the order point tells us to make more, whether we really need It or not. Other variation of the order point system is the two-bin system. In the two bin system, there are two bins, where material is stored. The primary location is used first, and when the second one starts to be used, that is a trigger to reorder material.

**Now choose a, b, c or d which best completes each item.**

8. In the early days of production and inventory control, the order point did not tell us exactly

- a. what we needed  
b. in what quantities we needed it  
c. when we needed it  
d. all of the above sentences

9. In two-bin system, there are bins or ....., where material is stored.

- a. equations  
b. locations  
c. capacities  
d. capitals

10. In a two-bin system, when the second location starts to be used, that is the trigger .....

- a. to reorder material  
b. to review system  
c. to note the items  
d. to store material

11. In the past, we ran out manufacturing operations by using an informal system of .....

- a. production and finance  
b. shortage lists and hot tags  
c. distribution and productions  
d. finance and hot dogs

12. The first method used to answer the question of 'when to order, was .....

- a. the logic of MRP  
b. the inventory records  
c. the manufacturing equation  
d. the order point system



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CHOOSE THE PERSIAN EQUIVALENTS OF THE FOLLOWING TERMS AND EXPRESSIONS.

12. maintenance

- a. مقیاس بندی      b. نگهداری      c. کنترل      d. تضمین

13. routing

- a. بازیابی      b. ذخیره سازی      c. نظارت دائمی      d. مسیر یابی

14. stochastic

- a. مقطعی      b. اتفاقی      c. واقعی      d. قطعی

15. verification

- a. استقرار      b. اعتماد      c. پایایی      d. تصدیق

16. procurement

- a. تدارکات      b. بازاریابی      c. انبارداری      d. تعمیرات

CHOOSE THE ENGLISH EQUIVALENTS OF THE FOLLOWING TERMS AND EXPRESSIONS

۱۷. همپوشانی

- a. interface      b. tradeoff      c. subsystem      d. overlapping

۱۸. ابتکاری

- a. stochastic      b. deterministic      c. optimistic      d. heuristic

۱۹. سلسله مراتب

- a. hierarchy      b. sequence      c. irritation      d. level

۲۰. بازیابی

- a. distributing      b. retrieving      c. classifying      d. recording

۲۱. دو جانبه

- a. temporal      b. dimensional      c. reciprocal      d. pictorial

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**Read the following text and the answer the questions.**

A system is an assemblage or combination of elements or parts forming a complex or unitary whole. Every system is made up of components, and any component can be broken down into smaller components. If two hierarchical levels are involved in a given system, the lower is conveniently called a subsystem. The origin of systems gives a most important classification opportunity. Natural systems are those which came into being by natural processes. Man-made systems, when brought into being, are embedded into natural world. Important interfaces often exist between man-made systems and natural. Natural systems exhibit a high degree of order and equilibrium. This is evidenced in the seasons, the food chain, the water cycle, and so on. Organisms and plant life adapt themselves to maintain an equilibrium with the environment. Every event in nature is accompanied by an appropriate adaptation, one of the most important being that material flows are cyclic. In the natural environment there are no dead ends, no wastes, only continual recirculation. Only recently have significant man-made systems are appeared.

22. According to the above text, which sentence is true?

- There is no interface between the natural and man-made systems.
- All systems exhibit the high degree of equilibrium.
- Material flow in natural systems is cyclic.
- There is no dead-ends in man -made systems.

23. According to the above text, which sentence is true?

- The natural world proved to be embedded into the man- made systems when brought into being.
- It is long time that significant man-made systems have appeared.
- All systems can adapt themselves with the environment.
- There are no wastes in the food-chain system.

24. According to the above text, which sentence is true?

- One can conclude that every set of items, facts, methods, or procedures is a system.
- The builder of man-made system is natural world.
- Natural systems are built with the natural processes.
- Construction of a massive dam is an example of the natural systems.

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25. According to the above text, which sentence is false?

- There are no relationships between the components in a system.
- Every system is made up of components.
- If two hierarchical levels are involved in a given system, the lower is conveniently called a subsystem

d. In an air transportation System, people, information and equipment are components.

26. According the above text, which sentence is false?

- Natural systems have a high degree of order.
- Man -made systems do not affect the natural world.
- Natural systems adapt themselves to maintain equilibrium with the environment.
- There is a circular material flow in a food -chain system.

Read the text and answer the questions.

Why use a model? There are many conceivable reasons why one might prefer to ...27.. with a substitute for the 'real thing' rather than with the thing itself. Often the motivation is economic-to save money, time, or some valuable commodity. Sometimes it is to ...28... risk associated with the tampering of a real object. Sometimes the real environment is so complicated that a /an ...29... model is needed just to understand it or to communicate with others about it. Such models are unique prevalent in the life sciences, the physical sciences, and engineering.

27. What is the most appropriate word for the first blank?

- modify
- change
- deal
- transfer

28. What is the most appropriate word for the second blank?

- execute
- avoid
- make
- cause

29. What is the most appropriate word for the third blank?

- real
- same
- special
- representative

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30. Which is the right order of the following systems to form a paragraph?

- I) A process layout groups work centers according to the general function they perform without regard to any particular product
- II) Layouts can be based on the work flow or the function of the facility.
- III) Based on the work flow, the basic types are process layout and fixed layout.
- IV) Machine shops, department stores, universities, and hospitals are usually arranged in this manner.
- a. I-II-III- IV      b. III--II- IV-I      c. II-III-I-IV      d. II-III-IV-I