

تعداد سوالات: تستی: ۳۰ تشریحی: ۰
زمان آزمون (دقیقه): تستی: ۶۰ تشریحی: ۰
کدسری سوال: یک - ۱

نام درس: زبان تخصصی
رشته تحصیلی/ کد درس: مهندسی صنایع (سنتی - تجميع) (۱۶۲-۱۲-۱۲)
آزمون: تابستان ۱۳۹۰

Read the following text and then answer the questions

There are various ways to classify flexible manufacturing systems. One classification depends on the difference between a FMS and a manufacturing cell. Generally the term cell can be used to refer to a machine grouping that consists of either manually operated or automated machines, or combinations of the two. The cell may or may not include automated material handling, and may or may not be computer controlled. The term 'flexible manufacturing system' generally means a fully automated system consisting of automated workstations, automated materials handling, and computer control. Both cells and FMSs rely on a GT approach in their design. In the other words, a grouping of four or more machines is a system, and three or fewer machines constitute a cell. A classification in flexible manufacturing system is based on the part geometry being processed. Machined parts can usually be divided into either of two categories: prismatic or round. Finally, FMS can be described as being either a dedicated FMS or random -order FMS. A dedicated FMS is used to produce a much more limited variety of part configurations, while the random- order FMS is the more appropriate type under the condition of large family of parts, substantial variations in the part configuration and current engineering changes in the parts and also in the production schedule. Now choose a, b, c or d which best completes each item.

- When many different parts of configurations are needed,is used.
 - the normal automated system
 - the random-order FMS
 - the dedicated FMS
 - the flexible manufacturing cell
- The flexible manufacturing systems are classified on the basis of being processed.
 - the production schedule
 - the line configuration
 - the specific operation
 - The part geometry
- A flexible manufacturing system can be described as being either
 - a NC program control or a dedicated FMS
 - a random order FMS or a dedicated FMS
 - A dedicated FMS or a flexible manufacturing cell
 - a flexible manufacturing cell or a NC program control



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4. A grouping of 5 machines served by a robot and capable of processing a family of parts is usually called.....
 - a. a flexible manufacturing cell
 - b. a computer – controlled center
 - c. a processing station
 - d. a flexible manufacturing system
5. GT are the initials of
 - a. group technology
 - b. generally technology
 - c. group terminology
 - d. general terminology
6. The basic components of flexible manufacturing system are.....
 - a. processing stations
 - b. computer control system
 - c. material handling and storage
 - d. all of the above
7. A grouping of four or more machines is and three or fewer machines constitute a cell.
 - a. a storage
 - b. a system
 - c. a work station
 - d. an incorporation

.Choose the Persian equivalents of the following terms and expressions .

8. stochastic

- a. واقعی
- b. آمار
- c. اتفاقی
- d. تحلیلی

9. legislator

- a. بازرس
- b. قانون گذار
- c. مشاور
- d. طراح



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10. hierarchy

- a. زنجیره
- b. سلسله مراتب
- c. مرحله
- d. برنامه

11. utilization

- a. سوددهی
- b. بهره برداری
- c. کاربردی
- d. بهینه سازی

12. logistics

- a. زنجیره تامین
- b. مکان یابی
- c. بازاریابی
- d. تدارکات



.Read the following text and then answer the questions

Closed-loop MRP (Material Requirement Planning) is a set of functions that are needed to represent a valid simulation of reality in a manufacturing company. It takes the top-level plans of the company and translates them into specific material and capacity plans. The production plan reflects production rates for product families, typically in monthly increments. It is set by the general manager and his staff and it answers the question, : "How many model 30 pumps will be built per week?" It does not matter whether you make pumps, widgets, cans or candy- the logic is the same. The master production schedule (MPS) takes the production plan in units for a product family and breaks it down into more detail. The MPS is the anticipated build schedule time-phased in weeks or days for each item in a product family. Capacity requirement planning (CRP) helps answer the question "what does it take to make it"? Since we have the items, due dates, and quantities of material we will need from material requirements planning, we can use that information to plan capacity. The order point was the first method used to answer the question "when to order". Other variations of the order point system are the two-bin system, the visual review system, and Kanban. In the two bin system, there are two bins, or locations, where material is stored. The Kanban system is basically the

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variation of the two-bin system. The difference is that instead of the trigger to order being use of material from a secondary location, the trigger becomes the Kanbancard.

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

- The production plan reflects production rate for product families.
- The logic of production planning differs when the kind of the product differs.
- The (MPS) is a step in taking the production plans and translating them into what can be accomplished in the factory.
- The master production schedule breaks the production plan down into more detail.

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

- A production plan is set by a general manager and his staff
- A CRP answers the question "what we are going to make"?
- A CRP determines the rate of the products.
- A production plan reflects production rates for product families usually in daily increments

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

- The MPS determines when we can order the materials to make the products
- The Kanban system is basically a variation of the visual review system.
- The first method used to answer the question of when to order was the visual review system
- The Kanban system is an example of inventory control system.

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

- A Kanban systems is a variation of two bin system.
- The logic of MPS determines what we are going to make.
- The trigger to order in Kanban system is a Kanban card.
- The order point is the first method used to determine the time of order.

.Choose the English equivalents of the following terms and expressions

17. کمی سازی

- utilization
- prioritization
- qualification
- quantification



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18. گردآوری داده ها

- a. data manipulation
- b. data acquisition
- c. data implementation
- d. data verification

19. موازنه

- a. overlapping
- b. trade off
- c. pinpoint
- d. pertinent

20. بازآرایی

- a. relayout
- b. reduction
- c. relies
- d. retrieval

21. مونتاژ

- a. assemblage
- b. automation
- c. integration
- d. accumulation



.Read the following text and then answer the questions

Theoretically, an optimization study may be done by experimenting directly with the ...22... System. In order words, the system or the process is run under different policies, and by ...23... data on the objective measures, decisions on the best policy are made. It may also be necessary to make some ...24... analysis on the output measures in order to make the decisions.

22. Which is the most appropriate word can be filled the *first* blank?

- a. financial
- b. virtual
- c. traditional
- d. actual

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23. Which is the most appropriate word can be placed in the *second* blank?

- a. collecting
- b. omitting
- c. modifying
- d. eliminating

24. Which is the most appropriate word can be placed in the *third* blank?

- a. marketing
- b. illegal
- c. environmental
- d. statistical

. Fill in the blanks with the appropriate form of the words given.

25. File searching or scanning of stored data may be calledin information processing systems.

- a. to retrieve
- b. retrieval
- c. retrieve
- d. retrieved

26. The of the flexible manufacturing systems to industry may not be more appropriate if part family is large.

- a. dedicate
- b. dedicated
- c. dedication
- d. dedicating

27. General systems theory is concerned with developing a framework for describing general relationships in the natural and man-made world.

- a. system
- b. systemize
- c. systematic
- d. systemization



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28. The engineering drawings all the physical and functional characteristics of the product to be utilized.

- a. facilitating
- b. facilitate
- c. facilities
- d. facility

29. The can be defined as the degree of usefulness of any service for the public.

- a. utility
- b. utilizes
- c. utilize
- d. utilized

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

- I) This essentially has contributed to the successful applications of linear programming models in practice.
 - II) Out of all optimization models, linear programming models are the most widely used and accepted in practice.
 - III) An important class of constrained optimization problems is linear programming which requires both the objective function and the constraints to be linear function.
 - IV) Unlike the other optimization problems which require special solution methods based on the problem structure, linear programming has just one common algorithm known as the simplex method.
- a. II- I -III- IV
 - b. III- II-IV-I
 - c. III- IV-I-II
 - d. I-II-III-IV



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سلامتی و تعجیل در فرج آقا امام زمان (عج) صلوات



وضعیت کلید	پاسخ صحیح	شماره سوال
عادی	ب	۱
عادی	د	۲
عادی	ب	۳
عادی	د	۴
عادی	الف	۵
عادی	د	۶
عادی	ب	۷
عادی	ج	۸
عادی	ب	۹
عادی	ب	۱۰
عادی	ب	۱۱
عادی	د	۱۲
عادی	ب	۱۳
عادی	الف	۱۴
عادی	د	۱۵
عادی	ب	۱۶
عادی	د	۱۷
عادی	ب	۱۸
عادی	ب	۱۹
عادی	الف	۲۰

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عادی	د	۲۲
عادی	الف	۲۳
عادی	د	۲۴
عادی	ب	۲۵
عادی	ج	۲۶
عادی	ج	۲۷
عادی	ب	۲۸
عادی	الف	۲۹
عادی	ب	۳۰