

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

1- Broadly defined, the function of industrial engineers is to bring together people, machines, materials, and information an effective operation.

1. to facilitate 2. facility 3. facilitated 4. facilities

2-The industrial, beginning in the eighteenth and nineteenth centuries, resulted from a number of factors.

1. administration 2. revolution 3. contribution 4. experimentation

3-..... have advocated what is called the 'general systems' applied to management.

1. much 2. many 3. the first 4. a person

4-The author believes that most people have some appreciation of systems.

1. molecular 2. geographical 3. galactic 4. all of the above

5-What all managers of industrial engineering have are the problems associated with planning, organizing, directing and controlling the technical resources assigned to them.

1. relation 2. evident 3. in common 4. output

6-Study teams introduced by many companies in Japan and West Germany were, keen observers, and learned their lessons well.

1. bad visitors 2. good students
3. unpleasant tourists 4. disagreeable guests

7-The structure of organizations is central to the well-being of both society and

1. efforts 2. individuals 3. problems 4. inventions

8-A bridge is usually by the salt water of a sea.

1. eroded 2. erosion 3. eroticism 4. erode

9-Management in general has benefited by the of industrial engineering into new fields of endeavor.

1. expand 2. expanded 3. expansion 4. expensive

10- A varying demand level is apt to result in

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|-------------------------|------------------------|
| 1. service organization | 2. firing of personnel |
| 3. excessive costs | 4. seasonal influences |

11- A good layout must be

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|-----------------------------|-----------------------------|
| 1. a changing layout | 2. a permanent layout |
| 3. an inexpensive operation | 4. a non-problematic layout |

12- The scope of a layout problem may involve a minor adjustment to a single department or it may the entire facility.

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| 1. clutter | 2. forecast | 3. encompass | 4. facilitate |
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13- In the two bin system, when the second location starts to be used, that is the to reorder material.

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| 1. reason | 2. notation | 3. procedure | 4. trigger |
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14- Each phase of a layout has to be before it is presented for approval.

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| 1. checked | 2. overlooked | 3. ignored | 4. disagreed |
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15- the storage the marketing layout involves any physical change in the product.

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|------------------|-----------------|-----------------|-----------------|
| 1. neither & nor | 2. Neither & or | 3. neither & of | 4. neither & is |
|------------------|-----------------|-----------------|-----------------|

Fill in the blanks with the most appropriate words.

.....A..... to its use as a ..B..... automated stand alone machine, itC..... used as a component of a flexible manufacturing system. It ...D.....features that make it very compatible with the FMS approach to production, .E..... automatic tool changing and tool storage.

16- A:

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| 1. with addition | 2. in addition | 3. in my opinion | 4. an addition |
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17- B:

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| 1. highly | 2. high | 3. largely | 4. large |
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18-C:

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| 1. can | 2. can be | 3. to be | 4. be |
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19-D:

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|---------|--------------|------------|------------|
| 1. have | 2. possesses | 3. possess | 4. propose |
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20-E:

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|------------|-------------|-------------|--------------|
| 1. include | 2. included | 3. includes | 4. including |
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choose the persian equivalents of the following terms and expressions:

21-motion pattern:

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|---------------|------------------|-----------------|-----------------|
| 1. الگوی حرکت | 2. الگوی اطمینان | 3. الگوی سوددهی | 4. الگوی تضمینی |
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22-vertical spindle:

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| 1. محور عمودی | 2. محور افقی | 3. خط عمود | 4. جسم عمودی |
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23-reveal:

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| 1. آشکار ساختن | 2. شامل بودن | 3. پیش بینی نمودن | 4. تحقق یافتن |
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24-synthesized:

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| 1. ترکیب کردن | 2. بدست آوردن | 3. توزیع نمودن | 4. تحقق یافتن |
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25-erosion:

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| 1. آلاینده | 2. آلودگی | 3. فرسایش | 4. انهدام |
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choose the English equivalents of the following terms and expressions:

۲۶- برنامه ریزی سود:

profit planning .۲

project planning .۱

distributiom planning .۴

production planning .۳

۲۷- تشخیص:

observation .۴

utilization .۲

overshadow .۲

discernment .۱

۲۸- چشم انداز:

۱. proposal ۲. prospect ۳. overlapping ۴. spatial

۲۹- نوسان:

۱. fluctuation ۲. frequency ۳. fluid ۴. slate

۳۰- برنامه ریزی غیر خطی:

۱. nonlinear program ۲. nonlinear programming
۳. integer program ۴. integer programming