



سری سوال : یک ۱

زمان آزمون (دقیقه) : تستی : ۰ تشریحی : ۱۲۰

تعداد سوالات : تستی : ۰ تشریحی : ۵

عنوان درس : زبان تخصصی

رشته تحصیلی / کد درس : مهندسی مدیریت اجرایی (چندبخشی) ۱۲۱۲۱۶۴

نمره ۲.۰۰

۱- مفهوم دو پاراگراف از پاراگراف های زیر را هر کدام در یک جمله بنویسید.

a. Many factors are involved when considering a Computer Integrated Manufacturing (CIM) implementation. They are the production volume, the experience of the company or personnel to make the integration, the level of the integration into the product itself, and the integration of the production processes. CIM is most useful where a high level of Information and Communication Technology is used in the company or facility, such as CAD/CAM systems.

b. A common method used to produce fullerenes is to send a large current between two nearby graphite electrodes in an inert atmosphere. The resulting carbon plasma arc between the electrodes cools into sooty residue from which many fullerenes can be isolated. There are many calculations that have been done using ab-initio Quantum Methods applied to fullerenes. Results of such calculations can be compared with experimental results.

c. A scientist should critically review the available literature, and determine any modifications that might be necessary. The relative usefulness of various types of paper and publication is important. In general, the low numbered references are useful as background reading and to provide an overview of the subject. The higher numbered sources, particularly 8, 9, 10 and 11, provide accurate and up-to-date information.



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نمره ۶,۰۰۰

۲- از جملات زیر به دلخواه ۶ جمله را ترجمه دقیق نمایید.

- a) There are three major challenges in development of a smoothly operating Computer Integrated Manufacturing system.
- b) Innovation may refer to incremental and emergent or radical and revolutionary changes in thinking, products, processes, or organizations.
- c) Title should be a concise summary of the paper and include important nouns or key words and then join together within the title.
- d) al-Jazari was a Muslim polymath, a scholar, inventor, mechanical engineer, craftsman, artist, and mathematician.
- e) Circuits and components can be divided into two groups: analog and digital.
- f) Quality control emphasizes testing of products to uncover defects, and reporting to management who make the decision to allow or deny the release
- g) Nanotechnology is the synthesis and application of ideas from science and engineering towards the understanding and production of novel materials and devices.
- h) It is necessary to develop specialized approaches to testing and monitoring Nanomaterials effects on human health and on the environment.
- i) Direct measurement of outcomes under controlled conditions will always be more accurate than modeled estimates of outcomes.
- j) Industrial engineers typically consider Operations Research (OR) techniques to be a major part of their toolset.
- k) Internet email addressing is still complicated by the need to handle mail destined for these older networks.
- l) Vision is a long term view, sometimes describing a view of how the organization would like the world in which it operates to be.



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نمره ۳.۰۰

۳- معنای مناسبی برای عبارات زیر بنویسید. (۶ مورد)

- a. European Strategic Program on Research in Information Technology
- b. research and development
- c. World Wide Web
- d. Islamic Golden Age
- e. vacuum tubes and semiconductor
- f. Quality Assurance versus Quality Control
- g. particle size distribution in nano materials
- h. Scientific Modeling
- i. management information system
- j. Multipurpose Internet Mail Extensions
- k. Strategic Planning

نمره ۱.۰۰

۴- با توجه به جمله زیر، (به فارسی) نام برخی از ابزارها که توسط متخصصین تحقیق در عملیات مورد استفاده قرار می‌گیرند را بنویسید.

The field of operations research is closely related to Industrial engineering. Industrial engineers typically consider Operations Research (OR) techniques to be a major part of their toolset. Some of the primary tools used by operations researchers are statistics, optimization, probability theory, queuing theory, game theory, graph theory, decision analysis, and simulation. Because of the computational nature of these fields, OR also has ties to computer science, and operations researchers use custom-written and off-the-shelf software.



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۵- گزینه درست را انتخاب نمایید.

نمره ۲.۰۰

a) is a mathematical science pertaining to the collection, analysis, interpretation or explanation, and presentation of data.

algorithm Management engineering Statistics

b) refers to a new way of doing something. It may refer to incremental and emergent or radical and revolutionary changes in thinking, products, processes, or organizations.

Innovation Robot PLC Project management

c) is a system of interlinked hypertext documents accessed via the Internet.

experiment www mail Observation

d) is any device that changes, usually increases, the amplitude of a signal.

triode circuit switch amplifier