

## **BUSTA 1**

1. Contabilizzazione delle opere pubbliche
2. Criteri ambientali minimi
3. Con riferimento al programma autocad il candidato descriva cosa sono i layer e cosa permettono di fare
4. Gli organi di Ateneo secondo lo Statuto dell'Università di Pisa
5. Photovoltaic windows are (semi)transparent modules that can be used to replace a number of architectural elements commonly made with glass or similar materials, such as windows and skylights. In addition to producing electric energy, these can create further energy savings due to superior thermal insulation properties and solar radiation control.

## **BUSTA 2**

1. Verifica e validazione del progetto di un'opera pubblica
2. Documenti di competenza della direzione lavori
3. Con riferimento al programma autocad il candidato descriva cosa sono lo spazio carta e lo spazio modello
4. Il Rettore
5. Living walls are often designed and installed with the use of modular planters and an irrigation system, making them easy to maintain and adaptable to various climates and environments. They are a prime example of how environmental architecture can enhance buildings functionality and beauty while contributing to a healthier and more sustainable environment

## **BUSTA 3**

1. Compiti e ruoli dell'ufficio direzione lavori
2. Le diverse forme di sub-contratto
3. Con riferimento al programma autocad il candidato descriva le funzionalità del comando "offset"
4. Il Senato accademico
5. Environmentally sustainable design is the philosophy of designing physical objects, the built environment, and services to comply with the principles of ecological sustainability and also aimed at improving the health and comfort of occupants in a building. Sustainable design seeks to reduce negative impacts on the environment, the health and well-being of building occupants, thereby improving building performance.

## **BUSTA 4**

1. Differenza fra PSC, PSS, POS e DUVRI
2. Accettazione materiale in cantiere
3. Con riferimento al programma autocad, il candidato descriva cosa sono gli snap ad oggetto e cosa consentono di fare
4. Il Consiglio di amministrazione
5. Building information modeling (BIM) is a process involving the generation and management of digital representations of physical and functional characteristics of places. Building information models (BIMs) are files (often but not always in proprietary formats and containing proprietary data) which can be extracted, exchanged, or networked to support decision-making regarding a building or other built asset.

## BUSTA 5

1. Interferenze fra opere edili e impiantistiche
2. Procedura autorizzativa per un'opera dell'Università
3. Con riferimento al programma autocad, il candidato descriva le caratteristiche e le modalità d'uso dei file “.ctb”
4. Il Nucleo di valutazione
5. Glass buildings, especially all-glass skyscrapers, contribute significantly to climate change due to their energy inefficiency. While these structures are visually appealing and allow abundant natural light, they also trap heat, necessitating increased use of air conditioning systems, which contribute to higher carbon emissions.

## **BUSTA 6**

1. Smaltimento reflui e acque meteoriche
2. Appalto integrato
3. Con riferimento al programma Primus il candidato descriva come si realizza un'analisi prezzi
4. Il Collegio dei Revisori dei Conti
5. Sustainable architecture is architecture that seeks to minimize the negative environmental impact of buildings through improved efficiency and moderation in the use of materials, energy, development space and the ecosystem at large. Sustainable architecture uses a conscious approach to energy and ecological conservation in the design of the built environment.

## BUSTA 7

1. Aspetti ambientali del cantiere
2. Compensi per incarichi a professionisti esterni
3. Modalità d'uso e caratteristiche del programma Primus nella fase di esecuzione dei lavori
4. Il Consiglio degli studenti
5. Passive solar building design allows buildings to harness the energy of the sun efficiently without the use of any active solar mechanisms such as photovoltaic cells or solar hot water panels. Typically passive solar building designs incorporate materials with high thermal mass that retain heat effectively and strong insulation that works to prevent heat escape.

## **BUSTA 8**

1. Materiale riciclato nell'edilizia pubblica
2. Compiti del Responsabile Unico di Progetto nella fase di esecuzione
3. Con riferimento al programma Excel il candidato descriva cosa consente di fare la funzionalità "Blocca riquadri"
4. Il Direttore Generale
5. Sustainable architecture often incorporates the use of recycled or second hand materials, such as reclaimed lumber and recycled copper. The reduction in use of new materials creates a corresponding reduction in embodied energy (energy used in the production of materials). Often sustainable architects attempt to retrofit old structures to serve new needs in order to avoid unnecessary development.



## **BUSTA 9**

1. Gestione dei subappalti
2. Fasi della progettazione ed elaborati progettuali
3. Principali differenze fra i programmi word ed excel
4. Il Comitato unico di garanzia
5. One central and often ignored aspect of sustainable architecture is building placement. Although the ideal environmental home or office structure is often envisioned as an isolated place, this kind of placement is usually detrimental to the environment. First, such structures often serve as the unknowing frontlines of suburban sprawl.

## BUSTA 10

6. Il contenzioso nelle opere pubbliche e il CCT
  
7. Modifica dei contratti in corso di esecuzione
  
8. Con riferimento al programma Excel il candidato descriva cosa consente di fare la funzionalità "Ordinamento personalizzato"
  
9. Il Collegio di disciplina
  
10. Solar architecture is an architectural approach that takes in account the sun to harness clean and renewable solar power. It is related to the fields of optics, thermics, electronics and materials science. Both active and passive solar housing skills are involved in solar architecture. The use of flexible thin-film photovoltaic modules provides fluid integration with steel roofing profiles, enhancing the building's design.

## **BUSTA 11**

1. DOCFPA e DIP
  
2. Rapporto fra CSE, DL e RUP
  
3. Con riferimento al programma Primus il candidato descriva come si imposta un file di contabilità
  
4. Il Dipartimento
  
5. Building-integrated photovoltaics are photovoltaic materials that are used to replace conventional building materials in parts of the building envelope such as the roof, skylights, or façades. They are increasingly being incorporated into the construction of new buildings as a principal or ancillary source of electrical power, although existing buildings may be retrofitted with similar technology.

## **BUSTA 12**

1. I collaudi nelle opere pubbliche
2. Verifiche di prevenzione incendi in fase esecutiva
3. Modalità d'uso e caratteristiche del programma Primus nella fase progettuale
4. Natura e fini dell'Università
5. Passive solar building design is often implemented in low-energy homes. Designers orient windows and walls and place awnings, porches, and trees to shade windows and roofs during the summer while maximizing solar gain in the winter. In addition, effective window placement (daylighting) can provide more natural light and lessen the need for electric lighting during the day