

**GEOGRAPHIC INFORMATION SYSTEMS
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***** EXAMINATION *****

**MEASURING THE IMPACTS OF THE DELIVERY SYSTEM ON PROJECT
PERFORMANCE - DESIGN-BUILD AND DESIGN-BID-BUILD**

1. **A system for achieving optimum integration of construction**
 - a) knowledge is the constructability
 - b) knowledge is the project change management
 - c) knowledge is the pre-project planning
 - d) knowledge is the design/information technology
2. **A process of determining attainability and evaluation of**
 - a) changes to a system is constructability
 - b) changes to a system is project change management
 - c) changes to a system is pre-project planning
 - d) changes to a system is design technology
3. **Design-build project safety performance is most influenced**
 - a) by constructability for the RIR and LWCIR
 - b) by project change management for the RIR and LWCIR
 - c) by pre-project planning for the RIR and LWCIR
 - d) by team building for the RIR and LWCIR
4. **Design-bid-build projects project schedule growth reduces**
 - a) due to the project change management practice
 - b) due to the zero accident techniques practice
 - c) due to the design/information technology practice
 - d) All of the above
5. **Design-build projects significantly outperformed DBB**
 - a) projects in construction schedule growth
 - b) projects in safety performance growth
 - c) projects in project schedule growth
 - d) projects in material cost growth
6. **For owners, DB projects outperformed DBB projects in the**
 - a) cost-related metrics, construction cost growth
 - b) cost-related metrics, construction phase cost factor
 - c) cost-related metrics, start up phase cost factor
 - d) All of the above

7. **For contractors, DB projects had better performance in the**
 - a) cost related metrics, project cost growth
 - b) cost related metrics, construction cost growth
 - c) cost related metrics, start up phase cost factor
 - d) cost related metrics, construction phase cost factor
8. **Private DB projects performed better in**
 - a) construction and project schedule growth
 - b) project and start up schedule growth
 - c) construction and start up phase duration factor
 - d) construction and start up schedule growth
9. **Industrial projects outperformed building projects in**
 - a) one of the four safety metrics analyzed
 - b) two of the four safety metrics analyzed
 - c) three of the four safety metrics analyzed
 - d) four of the four safety metrics analyzed
10. **Owner-submitted DB industrial projects performed better than**
 - a) DBB industrial projects in project cost growth
 - b) DBB industrial projects in construction cost growth
 - c) DBB industrial projects in construction phase factor
 - d) All of the above
11. **Owner-submitted DB projects clearly had the advantage over**
 - a) DBB projects in changes
 - b) DBB projects in rework
 - c) DBB projects in practice use
 - d) All of the above
12. **Contractor projects were categorized as DBB if the company**
 - a) performed the design function only
 - b) performed the team building practice only
 - c) performed the constructability practice only
 - d) performed the project change management practice only
13. **Projects were analyzed by project nature, which was divided**
 - a) into additions
 - b) into grass roots
 - c) into modernizations
 - d) All of the above
14. **A set contained within another set is**
 - a) a subsets
 - b) a presets
 - c) a dense sets
 - d) a multiset

15. **A statistical test used in inference is the**
- a) Z-test
 - b) two-tailed test
 - c) T-test
 - d) exact test
16. **The proposed explanation for an observable phenomenon**
- a) is a proposition
 - b) is an antecedent
 - c) is a hypothesis
 - d) is an assumption
17. **A function which defines a distance between elements**
- a) of a set is the algorithm
 - b) of a set is the metric
 - c) of a set is the fractal
 - d) of a set is the linear
18. **The test most commonly applied when the test statistic**
- a) would follow a normal distribution is a T-test
 - b) would follow a normal distribution is a Z-test
 - c) would follow a normal distribution is a F-test
 - d) would follow a normal distribution is a two-tailed test
19. **The acquisition of goods or services at the best total**
- a) cost of ownership is a management
 - b) cost of ownership is an outsourcing
 - c) cost of ownership is a purchase
 - d) cost of ownership is a procurement
20. **A particular time interval or an amount of time is called**
- a) a duration
 - b) a calculation
 - c) a function
 - d) a section

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