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MATRIC NO: 17/SCI14/016

DEPT: CHEMICAL ENGINEERING

ENG 384 SHORT TEST II

**QUESTION:**

**You have been invited by the current president of Nigeria, General Muhammadu Buhari to make an argument for the optimization of engineering resources in the country.  As an aspiring Engineer, briefly discuss your view on this and make viable recommendations that will facilitate timely completion of engineering projects within the allocated budget without jeopardizing economic and legal regulations of Nigeria**

* **Develop projects with tangible, quantifiable benefits**

To achieve this goal, governments should base the selection of projects on reliable data and analytics, robust financial models, and designs that meet the needs of citizens. They should consider both the direct impact of an infrastructure project and the indirect effects on the rest of the economy and society by increasing economic activity resulting from the removal of economic bottlenecks and the associated growth in labor and industrial productivity

* **Improve the coordination of infrastructure investments to account for network effects**

Another important consideration in selecting projects is their network effects—whether an investment is compatible with existing infrastructure, especially when the investment forms part of a network, such as transportation or power grids. Given the scale of the investment required, partnering with the private sector will be critical, and significant effort will go towards attracting private sector investment, and ensuring agreed execution priorities and timelines are effectively delivered.

* **Engage and align community stakeholders to promote inclusive economic and social benefits**

The engineer should consider the effects of infrastructure investments on social equity to ensure that the potential economic benefits are inclusive. To achieve the growth aspirations, it is required to have a stable macroeconomic environment with low inflation, stable (market reflective) exchange rates and sustainable fiscal and external balances. This requires that monetary, trade and fiscal policies are well aligned to ensure coherence and effective coordination.

* **Energy (power and petroleum product sufficiency)**

The Energy sector is fundamental to development across all other sectors of the economy. With regard to the power value chain, efforts will 15 be concentrated on overcoming the current challenges which relate to governance, funding, legal, regulatory, and pricing issues across the three main power segments of generation, transmission and distribution, and ensuring stricter contract and regulatory compliance