**NAME**: USMAN MUSTAPHA A.

**DEPARTMENT**: MECHANICAL

**MATRIC NO**: 17/ENG06/087

**LEVEL**: 300l

**TITLE**: CLASS TEST

ANSWER TO THE TEST

Optimization (maximum use) of resources in general is very necessary which provides a path for a sustainable outcome in a developing country. With respect to engineering, the resources provided / to be provided are very vital as they are the tools and equipment engineers use to carry out their task which in turn brings about an efficient and effective outcome.

To be able to optimize engineering resources, one has to put into consideration the fact that most tools and equipment are man-made and have a life-span (durability) limit. Excessive and abusive use of them will lead to project failure and other catastrophes. Also, optimizing engineering resources means making good use of their ability and current state of operation for individual tasks. This means the operator should not mix one equipment for the other to perform a certain task. This reduces the quality, durability and effectiveness of the equipment.

As an aspiring engineer, I strongly recommend the following:

* Overwork (extensive and abusive) of the machines, which is a common sanity amongst Nigerians, should be abolished.
* Exchange of certain machinery for another for a particular operation should be stopped.
* Storage and proper keeping of the tools (possibly washing and cleaning for those that can be washed and cleaned).
* Regular checking (roaster) and maintenance of the equipment.
* Replacement of worn out parts, etc.

With regards to financial budget and completion of projects, a two team management play is required for this. One of which is project management and the other is financial management. The project management team will deal with the project(s) at hand while the financial management team will deal with the financial and budget listing.

A third team maybe involved. This team will be concerned with the analyses and evaluation and conclusion with the other two teams list(s).

A very knowledgeable personnel that is very familiar with the country’s constitution, rules and regulations should be assigned the role of supervision. This way, illegal activities won’t be carried and the country’s best interest will be at hand.