

**INSTITUTE OF MANAGEMENT AND  
TECHNOLOGY (IMT) ENUGU**

**DEPARTMENT OF ESTATE MANAGEMENT**

**AN ASSIGNMENT PRESENTED**

**BY**

**NOVAL REAL ESTATE APPRAISAL HND II**

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## QUESTION NO. 1

In determine the critical path in a project, there must be a down procedures a project manager must follow:

1. Planning
2. Arranging and Scheduling
3. Controlling

## ANSWER

- ❖ **Planning:** This is a strategy on how to carryout the project successfully. In planning long term plans and short term plans must be considered, technology must be considered because it can change long term plans to short term plans.
- ❖ **Arranging and Scheduling:-** Under the arranging we are trying to set up, to put in order, or asking question how must will this project take to be completed. Scheduling in other hand, it is the timetable plan based on how the project will be carryout, stage by stage
- ❖ **Controlling:** This is where the measures are put in place in order to manage the resources according to the plane.

## QUESTION NO 2.

The relevance of critical analysis in a construct project are:

## **ANSWER**

1. Critical path analysis helps to indicate the longest task in a project and equally focus on how to solve it in order to meet the completion date.
2. Critical path analysis is a tools which helps to calculate and predict the project completion time and equally helps in controlling the company's expenses.
3. Critical path analysis helps to monitor human resources in a complet project.
4. In a critical path analysis of construction project, it helps to increase the high quality of communication and docummenting plan and time factor of a project.
5. Critical path analysis helps the project managers to calculate and predict completion data of every stage of the project.

## **QUESTION NO 3.**

From the PERT Chart:

- a. calculate the duration of each path
- b. Identify the critical path
- c. How would you approach the project to ensure timely delivery?

## **Answer**

**3a.** To calculate the duration of each path according to the chart are:

Duration of path 1 started from 5 days move to 3 days down to 3 days down to another 3 days plus 8 days.

which means:

$$\text{day 5} + \text{day 3} + \text{day 8} = 19\text{days}$$

it takes 19 days for path 1 to complete the project.

Duration of path 2 started from day 5 go to 3 days to another 1 day and 8 days.

Which means that:

$$\text{day 5} + \text{day 3} + \text{day 1} + \text{day 8} = 17 \text{ days}$$

This implies that it takes path 2 17 days to finish the project.

Duration of path 3 started form day 5 to day 3 to day 4, day 4 again to day 6, to day 8 and day 8 again.

Which means that:

$$\text{Day5} + \text{day3} + \text{day4} + \text{day4} + \text{day6} + \text{day8} + \text{day8} = 38\text{days}$$

This means it takes path 3 38 days to complete the project.

And path 3 is the longest path of the project which means that it is the critical path analysis of that project. It need more attention in order to meet up with time.

**3b.**

The critical path is the longest path three (3) is the longest path in the chart. Any delay in this path will delay the time of delivery of the project.

### **No 3c.**

How to approach project to ensure timely delivery are:

1. To ensure that the design of the project is feasible in terms of the construction.
2. When a contract are be awarded to a qualified contractor, the project will be timely delivery.
3. If advance technology are be applied in a project, it will enhance the fastest of time of delivery.
4. When a standard of materials are be use in a project. it will help the time delivery.
5. When a project are be finance properly it will enhance the time delivery of a project.

#### **Question No 4.**

To analyze this line of balance

This chart shows that the plan time to complete this project is two months. And finance budgeted on it is 50% these are the plan time of the project. But

The actual time the project was completed was four month which involved additional 50% to complete the project.