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SUBJECT:- CONSTRUCTION MANAGEMENT-

ASSIGNMENT

Problem

1:- What is Project life-cycle
explain briefly with diagram?

PROJECT LIFE-CYCLE:-

A project life cycle is the sequence of phases that a project goes through from its initiation to its closure. The number and sequence of the cycle are determined by the management and various other factors like needs of the organization involved in the project, the nature

of the project and its areas of application. The phases have a definite start, end and control point and are constrained by time. The project lifecycle can be defined and modified as per the needs and aspects of the organization. Even though every project has a definite start and end the particular objectives deliverables and activities vary widely. The lifecycle provides the basic foundation of the actions that has to be performed in the project irrespective of specific work involved.

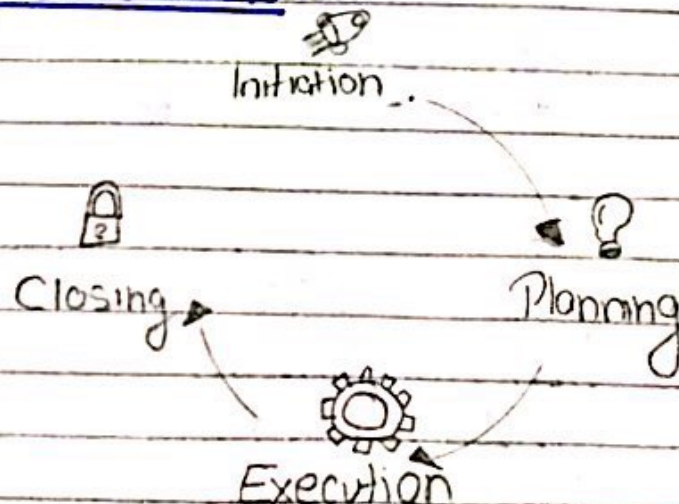
Project life cycles can range from predictive or plan-driven approaches to adaptive or change-driven approaches. In a predictive life cycle, the specifics are defined at the start of project, and any alterations to scope are carefully addressed. In an adaptive life cycle the product is developed over multiple iterations and detailed scope is defined for iteration only as iteration begins.

CHARACTERISTICS OF THE PROJECT LIFE CYCLE:-

Although projects are unique and highly unpredictable, their standard framework consists of same generic lifecycle structure, consisting of following phases:

- 1 The Initiation Phase: Starting of project
- 2 The Planning Phase: Organizing and Preparing
- 3 The Execution Phase: Carrying out the project
- 4 The Termination Phase: Closing the project

DIAGRAM:-



Problem

2 Define and explain briefly Major Types of Construction Projects?

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MAJOR TYPES OF CONSTRUCTION

The four major types of construction include residential building, institutional and commercial building, specialized industrial construction, infrastructure and heavy construction.

1 RESIDENTIAL BUILDING:-

The first type of construction is residential housing construction which involves building, repairing and remodeling of structures for the purpose of housing people, supplies or equipment. It includes apartments, townhomes, condos, nursing homes etc. Also garages and outbuildings like utility sheds are considered as residential constructions. As mentioned above residential construction also involves repair and installation of utilities like water as electricity around the structure. The design of residential housing projects is

Usually done by engineers and architects and the construction itself executed by construction companies who hire subcontractors to do the mechanical, structural and electrical work of project. But for single-family houses, builders usually do all of the phases, both the design and the construction.

2 INSTITUTIONAL AND COMMERCIAL BUILDING:-

This type of construction encompasses projects schools, sports arenas, shopping centers, hospitals, stadiums, retail stores and skyscrapers. Like the residential housing construction, institutional and commercial building involves both putting up of new structures and repair and maintenance of existing structures. Typically, a project like a retail store is usually commissioned by a company or private owner. Other projects such as stadiums schools and medical facilities are often paid for and managed by both the local and national government.

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SPECIALIZED INDUSTRIAL

CONSTRUCTION:-

The third type of construction is specialized industrial construction which entails building structures that require a high level of specialization as well as technical skills in planning construction, and design. Typically, this type of construction is carried out by for-profit or industrial corporation. For instance, a chemical industry can build oil refineries and power generation industry can build structures nuclear power plants which are examples of specialized industrial constructions.

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INFRASTRUCTURE AND HEAVY

CONSTRUCTION:-

The last type of construction is infrastructure and heavy construction which encompasses building and upgrading of railways communications and roads, railways to surroundings of a city or existing

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building constructions. This type of construction usually done due to the public interest and is often executed by government agencies and large private corporations. Some other projects that fall under this type of construction include tunnel, bridges highways, transit system, drainage system and pipelines.