Day. M T W T F S Date: __/__/__

Name Salman Ahmed

ID NO # 6864

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Submitted to Dr. Engr. Zeeshan Ahad.

University ⇒ Iqra National University Peshawar.

Day. M T W T F S Date: __/__/__

Assignment :

Ans: 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 area of application. The phases have a defined definite start, end, and control point and are constrained by time. The project lifecycle can be defined and modified as per

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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 the 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 the

Day: M T W T F S

Date: __/__/__

project, and any alteration to scope are carefully addressed. In an adaptive life cycle, the project product is developed over multiple detailed iterations and scope is defined for iteration only as the iteration begains.

Characteristic of project life cycle :-

Although projects are unique and highly unpredictable, their standards framework consist of generic lifecycle same structure, consist of the following phases.

(1) Initiation phase ⊛.

Day. M T W T F S Date: __/__/__

Starting of the project.

(2) Planing plase ⊛.

organizing and preparing.

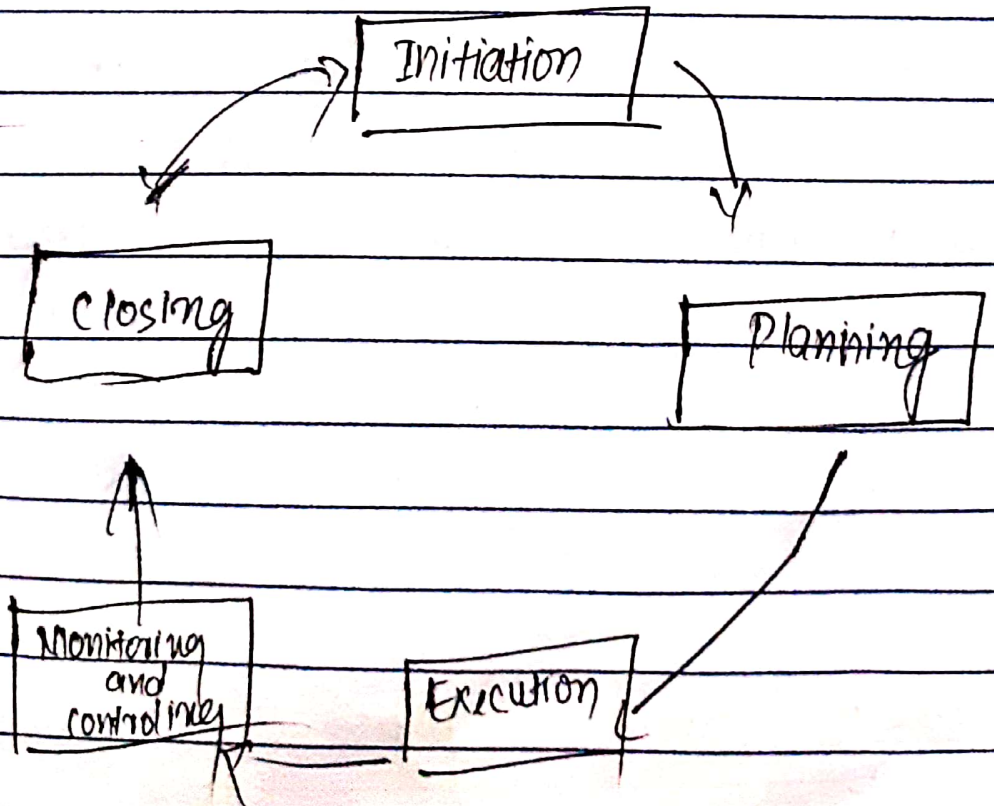
(3) Execution planning ⊛

Carrying out the project

(4) Termination plase. ⊛

Closing the project.

Diagrams ⊛



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Day. M T W T F S Date: __/__/__

① Major types of construction ②

In the field of architecture and civil engineering, construction is a method that consist of building or assembling infrastructure. it involves using a detailed plan and design and putting together different materials and elements to form a certain structure. usually these projects are managed by a project manager and supervised by a project manager architect, construction engineer, or construction engineer manager. There are four major types of construction

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each with its own requirements and characteristics.

⭐ Four Major types of construction ⭐

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

(1) Residential Building ⭐

The first type of residential construction is building, remodeling, repairing of the housing for the purpose of people, supplies, or equipments. its includes apartments,

Day: M T W T F S Date: __/__/__

town homes, condos, nursing homes, dormitories etc. Also, garages and out-buildings, 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 architecture and the construction itself executed by companies who hire sub contractors to do the mechanical, structural and electricity work of the project.

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But for single-family houses, builders usually do all of the phases, both the design and the construction.

(2) Institutional and Commercial Buildings

This type of construction encompass projects schools, sports arenas, shopping centers, hospitals, stadium, detail stores and skyscrapers. like the residential housing construction institutional and commercial building involves both maintenance and repair of existing structures. Typically, a project

like a retail store is usually commissioned by a company or private owner. other projects such as Stadium, schools and medical facilities are often paid for by and managed by both the local and national government.

(3) 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 corporations. For instance, a chemical industry can build oil refineries, and power generation industry can build structures nuclear power plants and hydroelectric power plants, which are examples of Specialized industrial construction.

(4) Infrastructure and Heavy construction ⊗

The last types of construction is infrastructure and heavy construction which encompasses building and upgrading of railways, communication and roads, railways to the surroundings of a

Day: M T W T F S Date: __/__/__

city or existing building construction. 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 under of this type construction include tunnels, bridges, highways, transit systems, systems, drainage and pipelines.