

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

SET B

**SCHOOL OF ENGINEERING
END TERM EXAMINATION - JAN 2024**

Semester : Semester VII- 2020

Course Code : CIV2035

Course Name : Construction Project Management

Program : B.Tech. Civil Engineering

Date : 03-JAN-2024

Time : 9:30AM - 12:00 PM

Max Marks : 60

Weightage : 30%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

(2Q X 5M = 10M)

1. Define the following:

- a. Optimistic time
- b. Most likely time
- c. Pessimistic time
- d. Average duration time (D)
- e. Critical Path

(CO1) [Knowledge]

2. Define project crashing and different terminologies involved in it (NC, NT, CC, CT).

(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2Q X 10M = 20M)

3. Project management is the responsibility of a project manager. This individual seldom participates directly in the activities that produce the result, but rather strives to maintain the progress, mutual interaction and tasks of various parties in such a way that reduces the risk of overall failure, maximizes benefits, and minimizes costs. Explain the Traits and competencies of a Project Manager.

(CO1) [Comprehension]

4. To build the right plan for your construction project it is helpful to understand the construction process and phases. Explain the different Phases of a construction project in detail.

(CO3) [Comprehension]

PART B

ANSWER ALL THE QUESTIONS

(2Q X 15M = 30M)

5. A. Earned Value Analysis is a project management method that measures the amount of work completed on a project. It's an industry standard method that can also forecast a project's completion date and final cost. Analyse a project using EVA for the given data. In a project after 1.5years of starting the work, cost incurred to complete 55% of work was 35lakhs. But According to budget allocated cost for 55% of work was 34lakhs. As per the schedule in 1.5years 53% of was supposed to be completed which was budgeted at 37lakhs. Calculate SV, SPI, CV, CPI and comment on the result. [10M]
B. Risk is a part of all construction projects. It can impact a project's objectives, such as cost, time, and quality. Define risk. List different type of risk in construction. [5M]
(CO2) [Application]
6. A. Describe the general relationship of time and cost in construction, with the help of graph. [10M]
B. Which are the different ways to reduce the project duration in construction. [5M]
(CO2) [Application]