



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING  
END TERM EXAMINATION - JAN 2023**

**Semester :** Semester V - 2020

**Course Code :** CIV3046

**Course Name :** Sem V - CIV3046 - Projects/Problems based learning

**Program :** B.Tech. Civil Engineering

**Date :** 13-JAN-2023

**Time :** 9.30AM - 12.30PM

**Max Marks :** 100

**Weightage :** 50%

**Instructions:**

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.

**PART A**

**ANSWER ALL THE TEN QUESTIONS**

**10 X 2 = 20M**

1. The application of knowledge, skills, tools and techniques to project activities in order to meet or exceed -----  
a) stakeholder needs (CO1) [Knowledge]  
b) Only A  
c) expectations from a project  
d) Both A and C
2. The sequential steps involved in Project Based Learning are I) Identification of a project III) Fixing of a time frame and processing II) Providing guidance and monitoring a project IV) Defining a plan  
a) I, II, III, IV (CO1) [Knowledge]  
b) I, II, IV, III  
c) I, IV, III, II  
d) None of the Above
3. Investing in ----- to save lives and ----- back better  
a) data, build (CO1) [Knowledge]  
b) build, data  
c) business, recover  
d) recycle, dispose

4. The three dimensions of sustainable development are  
a) Environment, Economy, Social (CO1) [Knowledge]  
b) Economy, Urban, Rural  
c) Social, Poverty, Economy  
d) Technology, Sociology, Oncology
5. SDG 2 mentions about-----, achieve food security and improved nutrition and promote sustainable agriculture  
a) End hunger, Un sustainable agriculture (CO1) [Knowledge]  
b) Sustainable cities, Poverty  
c) End hunger, sustainable agriculture  
d) Poverty, Smart cities
6. PBL should involve -----in decision-making  
a) Students (CO1) [Knowledge]  
b) Teachers  
c) Parents  
d) None of the above
7. Project problems (time delays, excess costs, poor performance, etc.) are partly due to  
a) the machine element (action or inaction) (CO1) [Knowledge]  
b) Only A  
c) the human element (action or inaction)  
d) None of the Above
8. Attributes required for PBL execution are  
a) Insights (CO1) [Knowledge]  
b) Disunion  
c) Ignorance  
d) Both A and C
9. A Linear PMLC model consists of a number of dependent phases that are executed in a sequential order with no feedback loops.  
a) Complete and clearly defined goal, solution, requirements, functions and features (CO2) [Knowledge]  
b) Routine and repetitive projects  
c) Both A and B  
d) None of the Above
10. When to use Linear Project Management Life Cycle Model  
a) Projects that are repetitive (CO2) [Knowledge]  
b) Only A  
c) Simple, short duration projects  
d) Both A and C

## PART B

### ANSWER ALL THE FIVE QUESTIONS

5 X 7 = 35M

11. A project is a complex effort that necessitates an analysis of the target (problem analysis) and that must be planned and managed, because of desired outcomes. What are the four Resources for Project Control? Explain the importance of each one of them with relevant examples, as discussed in one of the class in this course.
- (CO2) [Comprehension]
12. Explain the different approaches of Project Management Life Cycle.
- (CO2) [Comprehension]
13. The learning approach as problem and project-based learning means that learning is organized around problems. It is a central principle for the development of motivation. A problem makes up the starting point for the learning processes and places learning in context and base learning on the learner's experience. State the importance of Project based learning.
- (CO1) [Comprehension]
14. The project two assigned to you has been based on rural water supply, as explained in the class and based on the project 2 carried out by you, Explain each steps in brief, how you planned and achieved the desired outcomes based on following points :i. Planning Project; ii. Collecting data; iii. Analyzing the data; and iv. Interpreting the data;
- (CO1) [Comprehension]
15. Project-based Learning is holistic in nature and incorporates the principles of providing challenging and complex work, interdisciplinary and encourages cooperative learning. Using your domain knowledge and skills, explain how you meet the objectives of SDG 13.
- (CO1) [Comprehension]

## PART C

### ANSWER ALL THE THREE QUESTIONS

3 X 15 = 45M

16. You have completed the project on construction of rural roads, Explain each steps in brief, how you planned and achieved the desired outcomes based on following points :i. Planning Project; ii. Collecting data; iii. Analyzing the data; and iv. Interpreting the data;
- (CO3) [Application]
17. The rain water harvesting (RWH) project has been assigned to you in this course, Explain each steps in brief, how you planned and achieved the desired outcomes based on following points :i. Planning Project; ii. Collecting data; iii. Analyzing the data; and iv. Interpreting the data; using technology.
- (CO3) [Application]
18. The project may have three distinct components: Feasibility study, Pilot and Operational, explain the project work on rural water supply you have done as an assigned project relating to these three distinct components
- (CO2) [Application]

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