

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

G9H'A

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

Semester : Semester V - 2021

Course Code : MGT2013

Course Name : Project Management

Program : B.Tech.

Date : 03-JAN-2024

Time : 9:30AM - 12:30 PM

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.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

5 X 2M = 10M

1. Recall at least five (5) benefits of Project Management.
(CO1) [Knowledge]
2. Recognize what happens when the project scope is not defined clearly.
(CO1) [Knowledge]
3. Identify the Triple constraints of Project Management with a diagram. Give suitable examples.
(CO2) [Knowledge]
4. Explain why network digram is essential in Project Management
(CO3) [Knowledge]
5. Recognize the differences between a "Risk" and an "Issue"
(CO4) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

5 X 10M = 50M

6. Explain the common mistakes made by project teams when defining Project Scope, with suitable examples.
(CO2) [Comprehension]
7. It is a common practice to use additional resources to complete the projects faster. With reference to this context, explain the benefits and limitations of Project Crashing, with suitable examples.
(CO3) [Comprehension]
8. Critical Path Analysis helps the Project Manager to better manage a project. With reference of this context, explain the benefits and limitations of critical path analysis, with suitable examples.
(CO3) [Comprehension]

9. Performing Risk Assessment is one of the prime output in the risk identification step. With reference to this context, answer the following questions:
 (a) Explain "Risk Assessment Matrix" with the help of a figure
 (b) Discuss how risks are categorized based on severity and likelihood
 (CO4) [Comprehension]
10. Risks may become issues if not addressed on time. Within this context, discuss ten (10) types of common project risks, with suitable examples.
 (CO4) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

2 X 20M = 40M

11. General Foundry, Inc., a metal works plant in Milwaukee, has long been trying to avoid the expense of installing air pollution control equipment. The local environment protection group has recently given the foundry 16 weeks to install a complex air filter system on its main smokestack. General Foundry has been warned that it may be forced to close unless the device is installed in the allotted period. John Lester, the managing partner, wants to make sure that the installation of the filtering system progressed smoothly and on time. General Foundry has identified the following eight activities that need to be performed and their sequential relationship with activity time estimates.

Activity	Activity Description	Immediate Predecessor	Activity Time Estimates (w)
A	Build internal components	-	2
B	Modify roof and floor	-	3
C	Construct collection stack	A	2
D	Pour concrete and install frame	A, B	4
E	Build High Temperature Burner	C	4
F	Install Pollution Control System	C	3
G	Install Air Pollution Device	D, E	5
H	Inspect and Test	F, G	2

- (a) Construct an appropriate AON network diagram
 (b) Perform forward and backward pass computations to arrive at the Critical Path.
 (c) Identify the critical path.
 (d) What will be the final duration of this project?

(CO3) [Application]

12. Identifying, analyzing, and mitigating potential project risks is called "Project Risk Management". Regarding this context, answer the following questions:
 (a) Illustrate the six (6) steps of the Risk Management Process with the help of a neat sket
 (b) Interpret each step of the risk management process in your own words with suitable exampl
 (CO4) [Application]