

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF COMMERCE

DEPARTMENT OF BANKING AND FINANCE

PROJECT MANAGEMENT (BS 407)

JUN 2024

DURATION: 3 HOURS

INSTRUCTIONS TO CANDIDATES

1. Answer any **TWO** questions from each section
 2. All questions carry equal marks.
 3. Start each question on a fresh page.
 4. Use of scientific calculator allowed.
 5. No cell phones in the examination room.
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SECTION A

QUESTION ONE

Discuss the process groups identified in project management. [25 marks]

QUESTION TWO

Evaluate the strategic role that projects play in an organization. [25 marks]

QUESTION THREE

With the aid of practical examples, discuss the reasons why certain projects fail. [25 marks]

SECTION B

QUESTION FOUR

You are the Project manager leading a dam construction project which has five phases expected to be done sequentially. The planned duration and costs for each phase are as follows:

Table 1

PLANNED DURATION AND COSTS

PHASE	DURATION(months)	COST(\$000)
Analysis	1	10
Design	2	20
Implementation	4	40
Testing	2	20
Integration	1	10

At the end of the 7th month, the status of the project is as follows:

- Analysis is 100% complete with a cost of \$10 000
- Design is 100% complete with a cost of \$15 000
- Implementation is 75% complete with a cost of \$35 000
- Testing and Integration has not started.

Required:

Advise the sponsors on the status and future prospects of the project.

[25 marks]

QUESTION FIVE

A project manager has been given the information below about a project;

Table 2

PRECEDENCE TABLE

Activity	Duration (weeks)	Predecessors	Staff
A	3	--	2
B	2	--	3
C	5	A	3
D	4	B	4
E	3	B,C	4
F	2	D	3
G	8	E,F	2
H	1	G	3

Required:

- Determine the Critical Path. (7)
- Determine the slack time associated with each activity. (8)
- The project has had a resource limit imposed. No more than four staff may be assigned during any period. What is the impact that this constraint has on the

overall project duration and on the schedule showing when each activity starts and is completed. (10)

QUESTION SIX

Company ABC has \$300 000 committed for projects and has to select from the projects identified in the table 3 below. You are also given that the cost of capital is 15%

Table 3

PROJECTS UNDER CONSIDERATION

PROJECT	INVESTMENT(\$)	IRR	DISCOUNTED CASH FLOWS (\$) AT 15 %.
1	50 000	20%	116 000
2	120 000	18%	183 000
3	110 000	16%	147 000
4	130 000	15%	171 000
5	90 000	12%	103 000
6	180 000	11%	202 000
7	80 000	8%	66 000

Required:

- a) Advise the company on the feasible investment combination. (15)
- b) Assuming you are not given the cost of capital, what are the practical ways you can use to estimate it? (5)
- c) Why is using the IRR not always the best approach? (5)

[25 marks]

END OF PAPER