Software Project Management

ITA5001

Digital Assignment

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Year	Cashflow
0	-100,000
1	10,000
2	10,000
3	10,000
4	20,000
5	100,000

Interest rate = 8% ; Discount factor = $\frac{1}{(1+r)^T}$ where r is interest rate

T = time.

Year	Cash-flow	Discount factor	Discounted Cash flow
0	-100,000	1	-100,000
1	10,000	0.926	9260
2	10,000	0.857	8570
3	10,000	0.794	7940
4	20,000	0.735	14700
5	100,000	0.681	68100
		NPV	8570

Pay back period

Year	Cash-flow	Accumulated
0	-100,000	-100,000
1	10,000	-90,000
2	10,000	-80,000
3	10,000	-70,000
4	20,000	-50,000
5	100,000	50,000

Return on investment (ROI)

$$ROI = \frac{Average\ annual\ profit}{Total\ investment} \times 100$$

$\Rightarrow$ Average annual profit

$$= 50,000/5$$

$$= 10,000$$
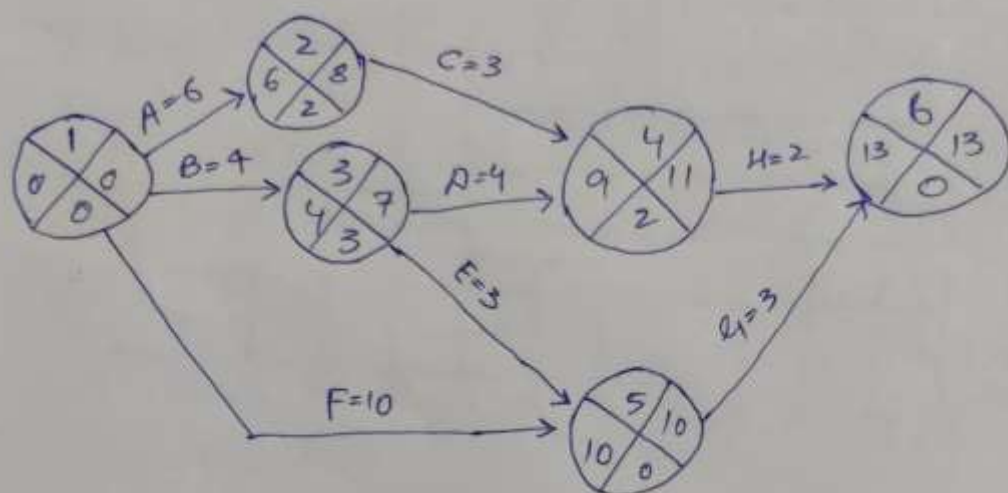
$\therefore ROI = \frac{10,000}{100,000} \times 100$

$\Rightarrow \boxed{ROI = 10\%}$

Activity	Duration	Predecessor
A	6	—
B	4	—
C	3	A
D	4	B
E	3	B
F	10	—
G	3	E, F
H	2	C, A

A. Hardware selection.

B. System Configuration.

C. Install hardware.

d. Data migration.

e. Draft office procedures.

f. Recruit staff.

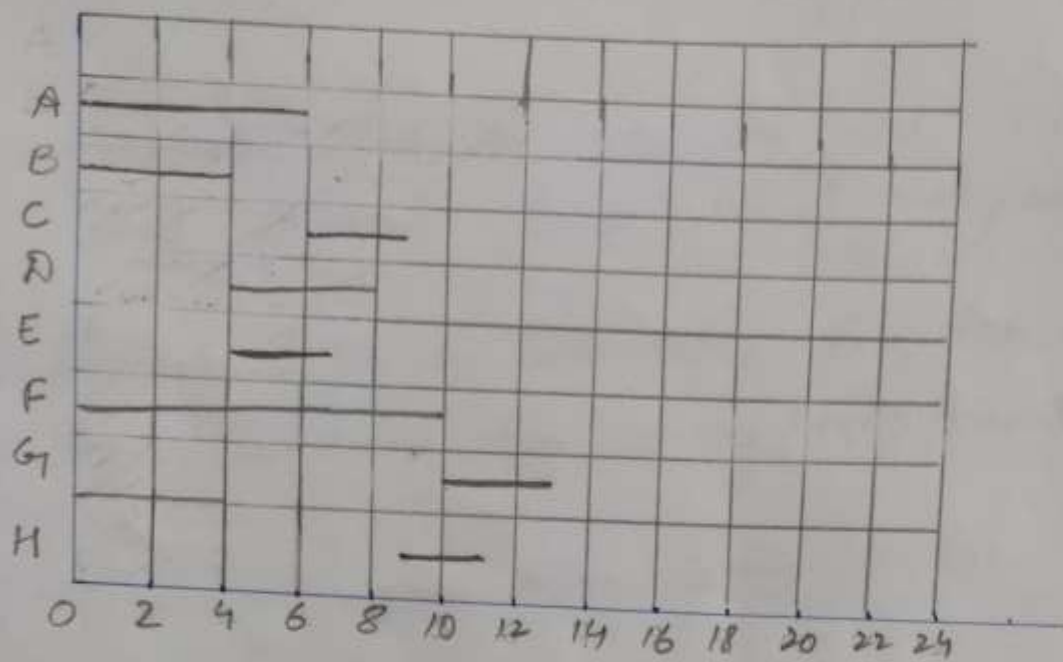g. User training.

h. Install and test system.

AOA diagram

Calculating the Critical path := F + q = 13

∴ The project duration is 13 weeks.

Gant Chart

Risks associated

↳ Shortfalls for externally supplied components.

↳ Personal Shortfalls as we are recuiting the Staff from a huge talent pool.

↳ Development is technically too difficult because it is involving too many requirements.

↳ Training users also comes under personel Shortfalls.

↳ Budgets risks like wrong/improper budget estim-ation.
  → improper tracking of budget.

↳ Conflict between tasks and employees.

↳ lack of Clarity in roles and responsibilities.

↳ improper integration of modules.

↳ rapid development of market.

Specific   SMART objectives

⮡ The ERP System should be able to manage user and their data and the functionality to achieve a particular task.

⮡ Increase recurring revenue in 2019.

Measurable :-

Achieve a 25% increase versus one year ago.

Attainable :-

Improve upon 2021 performance with 15% increase through new Customers and reduced churn.

Relevant :-

Revenue is the engine that drives our profitability.

Time - Bound :- Set specific numerical targets for each quarter of 2022.