Date: / /20

NAME = Muhammed Mamoon

ID = 7690

Sec = C

Paper = Construction Management

Date = 22 / June / 2020

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Question No : 1

Given Data):-

Number of communicatio
channel = 6

Additional stake holder = 2.

Required Data):-

Identify the number of communication channels

SOLUTION):-

As we know that;

number of communication channel = $\frac{n(n-1)}{2}$

The number of people involved in Six communication channels

$$6 = \frac{n(n-1)}{2} \Rightarrow 6 \times 2 = n(n-1)$$

$$12 = n^2 - n$$

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Re-arranging the terms

$n^2 - n - 12 = 0$

$n^2 - 4n + 3n - 12 = 0$

$n(n-4) + 3(n-4) = 0$

$(n-4)(n+3) = 0$

$(n-4) = 0$ $\quad\quad$ $n+3 = 0$

$\boxed{n = 4}$ $\quad\quad$ $\boxed{n = -3}$

The number of people involved = 4

As there are additional stake holder's

So total number of people are $n = 4+2$

$\boxed{n = 6}$

So the required communication channel $= {}^{6}C_{2}(6-1) = 3(5) = 15$

$\boxed{\text{So communication channel} = 15}$.

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Question = 3

NPV = net present value.

Present value of net cash flows

$$NPV = \sum_{t=0}^{N} \frac{ct}{(1+r)^t}$$

where

t = time of cash flow

N = The total time of project

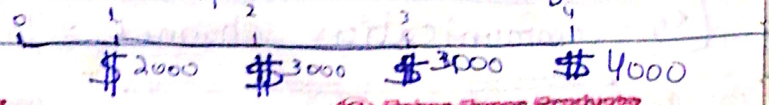
r = The discount rate (The rate of return that would be earned on an investement in the financial materia with similar risk)

ct = The net cash flow (The amount of cash) at time t

C_0 = The initial investement

Net present value analysis

Expected cash flow.



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SOLUTION)80-

$$NPV = -C_0 + \frac{C_1}{1+r} + \frac{C_2}{(1+r)^2} + \cdots + \frac{C_t}{(1+r)^t}$$

$$PV_0 = -C_0$$

$$PV_0 = -9000$$

$$PV_1 = \frac{C_1}{1+r} = \left(\frac{3000}{1+\frac{10}{100}}\right)$$

$$\boxed{PV_1 = \$\ 818.18}$$

$$PV_1 = \frac{C_2}{(1+r)^2} = \frac{3000}{\left(1+\frac{10}{100}\right)^2}$$

$$PV_3 = \boxed{\$\ 2253.94}$$

$$PV_4 = \frac{C_4}{(1+r)^4} = \frac{4000}{\left(1+\frac{10}{100}\right)^4}$$

$$PV_4 = \boxed{\$\ 2732.05}$$

$$NPV = -C_0 + \frac{C_1}{(1+r)} + \frac{C_2}{(1+r)^2} + \frac{C_3}{(1+r)^3} + \frac{C_4}{(1+r^4)}$$

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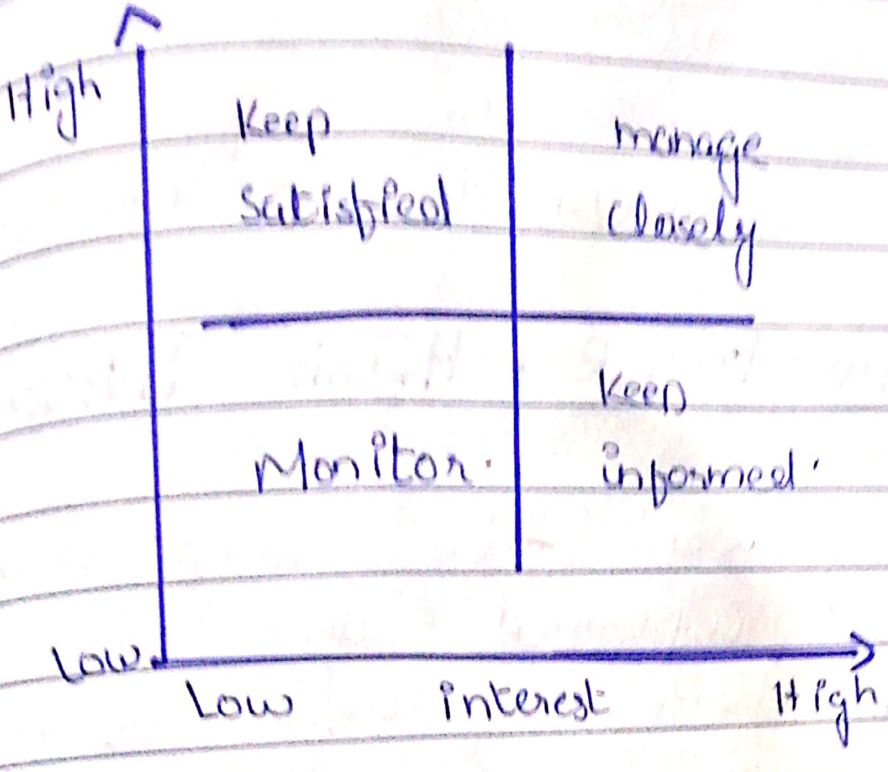
= -9000 + 1313.13 + 2479.34 +
2253.94 + 2732.05

NPV = $ 283.51

Comment:-

=> Positive NPV indicate that the project is profitable

Question-4:



① HIGH POWER, HIGH INTEREST :-

These are your most important stake holders, and you should prioritize keeping them happy with your project progress.

② HIGH POWER, LOW INTEREST :-

Because of their influence in the company you should work to keep these people satisfied. But because they

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have not shown a deep interest in your project. You could turn the off if you over communicate with them

③ Low Power, High Interest:-

You will want to keep these people informed and check in with them regularly to make sure they are not experiencing problem of the project.

④ Low Power, Low Interest:-

Just keep these informed periodically, but don't over do it.

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QUESTION = 5 :-

ANSWER:-)

CHECKLIST FOR RISK MANAGEMENT:

Stage = 1

Initistion:

- Assemble Risk Management.
- Appoint the term leader and Ansure a breadth skills / experience with in the team.
- As-sign Risk Management responsibility appropriate to task.

Stage = 2

Proposal Finalization:

- Specify objectives and criteria.

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- Finalize the team with the proposal assemble documentation and define the key objective.
- Assign the propal in relation to agency objective and stratigies.
- Determined assistment criteria for proposal.
- Define key elements to structure risk element

Stage - 3

RISK ANALYSIS:

1. Identify risk

- Prepare a comprehensive shedule of risk of each elements.

- Describe the each risk and list the main assumption.

2 Assess Risk likelihoods and consequences.

- Assemble data on risk and theis consequences.
- Assess risk likelihoods
- Assess risk Impacts.

3 IDENTIFY SIGNIFICANCE RISK:

- Rank risks to reflect impact and likelihoods.
- Where applicable estimate risk factor.
- Discard / except minor risk.

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- Identify moderate risk for management measures.

4. Identify major risk for detail risk action plaining.

Question 2:

Answer :

Work pakage	BCWS	ACWP	Progress	BCWP	(CV)	CPI	SPI	SV
	Planned value (PV)	Actual cost (AC)	%	Earned value (EV)	EV-AC	EV/AC	EV/PV	EV-PV
1	$ 100,000.00	$ 120,000.00	100%	$100,000.00	$ (20,000.00)	0.83	1.00	$ -
2	$ 100,000.00	$ 110,000.00	100%	$100,000.00	$ (10,000.00)	0.91	1.00	$ -
3	$ 100,000.00	$ 80,000.00	90%	$ 90,000.00	$ 10,000.00	1.13	0.90	$ (10,000.00)
4	$ 100,000.00	$ 125,000.00	80%	$ 80,000.00	$ (45,000.00)	0.64	0.80	$ (20,000.00)
5	$ 100,000.00	$ 75,000.00	50%	$ 50,000.00	$ (25,000.00)	0.67	0.50	$ (50,000.00)
6	$ 100,000.00	$ -	0%	$ -	$ -	0.00	0.00	$(100,000.00)
7	$ 100,000.00	$ -	0%	$ -	$ -	0.00	0.00	$(100,000.00)
8	$ 100,000.00	$ -	0%	$ -	$ -	0.00	0.00	$(100,000.00)
9	$ 100,000.00	$ -	0%	$ -	$ -	0.00	0.00	$(100,000.00)
10	$ 100,000.00	$ -	0%	$ -	$ -	0.00	0.00	$(100,000.00)
BAC								

Comment: The Project is over schedule and Over budget.