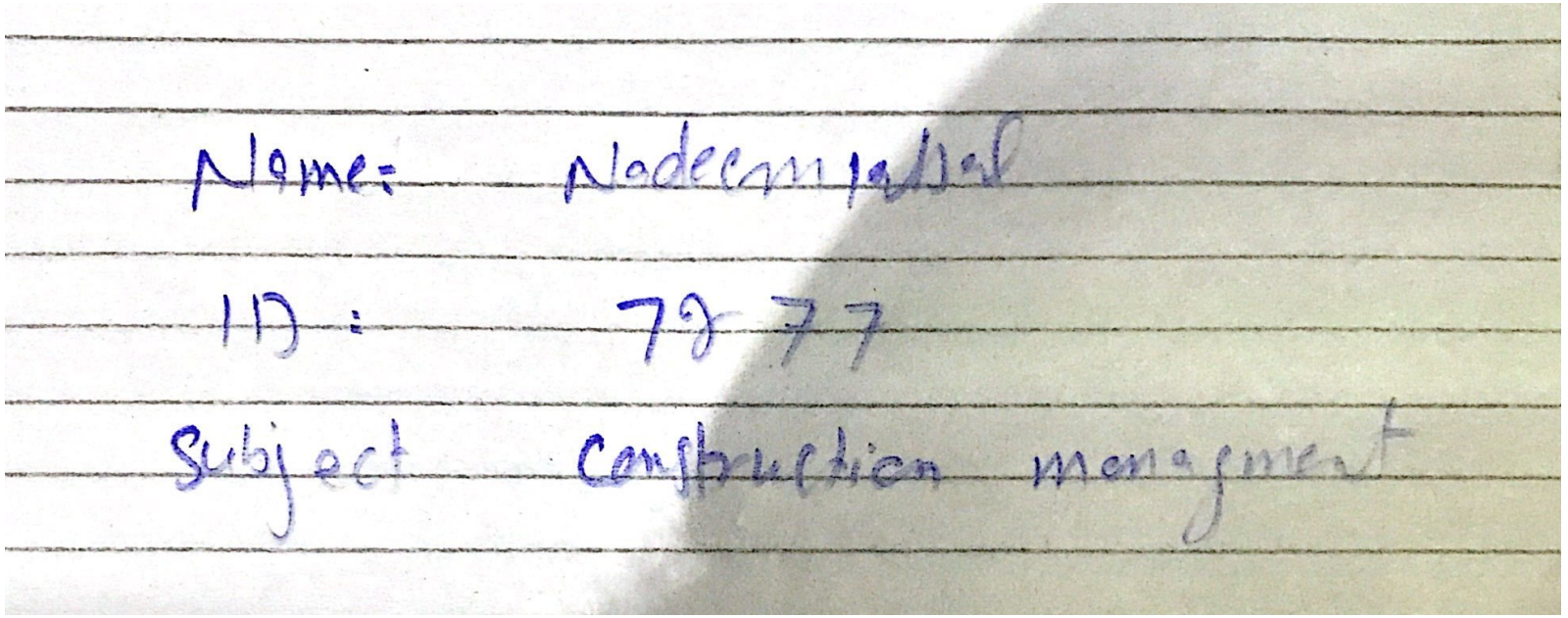

Q: 1:

Ans: Main types of (ADR) are following.

(i): Negotiation: is a process That involves activities need to resolve diffrent kinds of disputes by Conducting, Consultation between The involves Parties to reach Consensus negotiation can happen at any time within The project management life cycle and it can be either formal or non formal

(ii): Mediation: is a Consenual process off disputes resolution in which a third Party mediator appointed by The Parties to the disputes, assists in The negotiated resolution of The disputes. a

~~advantages~~

(iii): Collaborative: it is it core whoever collaboration in contruction simply means That teams are working together toward one project goal every one can access The main plan and goal of The project it any time without having to rely on gatecaper or sloge to Faraway office in order to The get The information The need.

iv) Arbitration: Arbitation which is The process by The parties and disputes and enstand A going to Court to resuts The matter agree to Sumbit Their case to a Third Party natural nutral know as know Arbitlation.

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Advantages of ADR.

(1) it is usually faster and less costly.
(2) People have a change to tell their story as the see it.
(3) it is more flexible and response to the individuals needs of the involve.
(4) it is more informal
(5) they parties involvment in the process of creats greater commitment to the results.

Disadvantage of ADR

(1) Arbitration decission or final.
(2) Limit arbitration awards.
(3) descovry limition
(4) free for the natural.
(5) no bonding arbitration.

Q2. (ii)

Solution:

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

$$NPV = -9000 + \frac{2000}{(1+0.06)^1} + \frac{3000}{(1+0.06)^2} + \frac{3000}{(1+0.06)^3} + \frac{4000}{(1+0.06)^4}$$

$$NPV = PV_0 + PV_1 + PV_2 + PV_3 + PV_4$$
$$= -9000 + 1886.79 + 2639.98 + 2518.85 + 3168.37$$

$$\boxed{NPV = 843.99}$$

Comments:

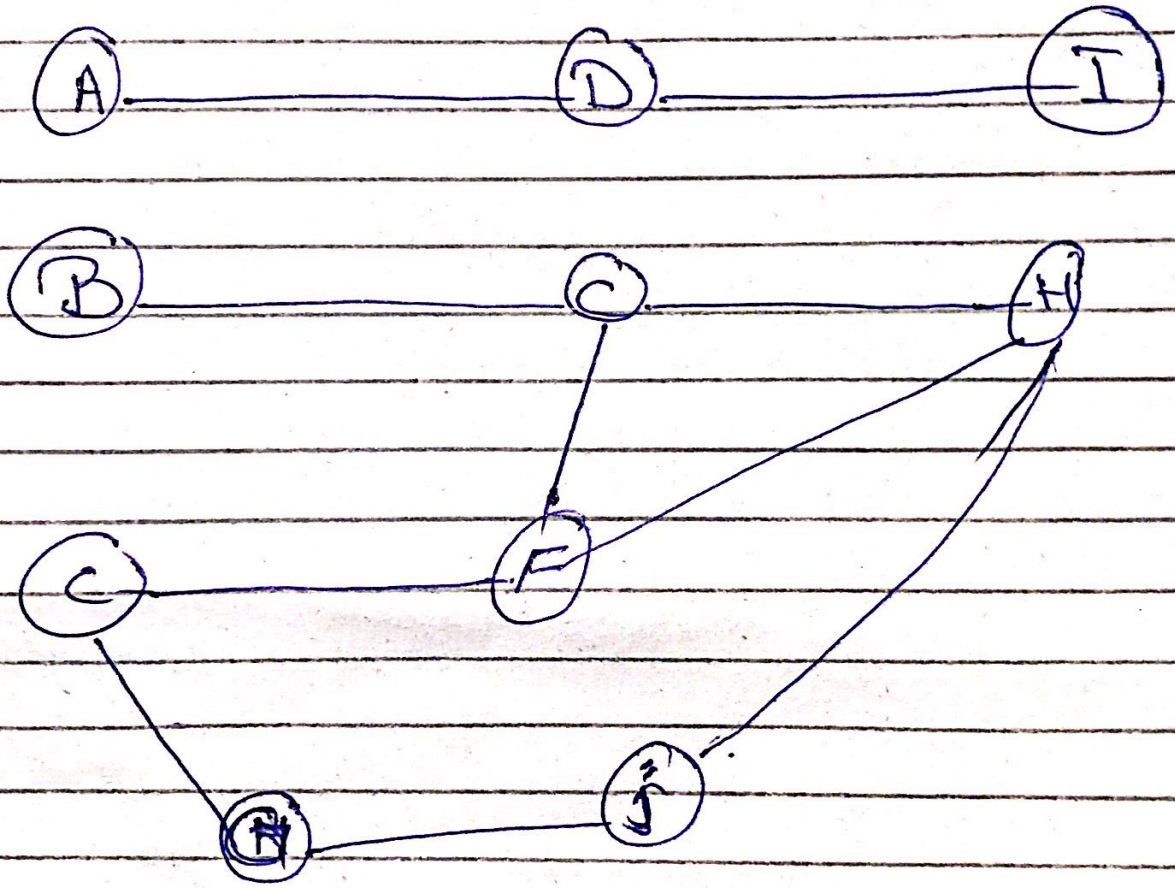
The npv of ~~cost~~ $ 843.99 Suggest That The combine pv of inflow exceed that pv of outflow by 843.

	PV	AC	%	EV	$\left(\frac{EV}{PV}\right)$ SPI	(EV−PV) SV	$\left(\frac{EV}{AC}\right)$ SPI	EV−AC CV
(1)	10,000	120,000	100	120,000	1.2	20000	1	0
(2)	100,000	110,000	100	110,000	1.1	10000	1	0
(3)	100,000	80,000	90	99,000	0.98	10000	1.23	19,000
(4)	100,000	125,000	80	64,000	0.64	36000	0.512	−61000
(5)	100,000	85,000	50	62,500	0.625	37500	0.735	−22500
(6)	100,000	0.00	0%	0.00	0.00	0.00	0.00	0.00
(7)	100,000	0.00	0%	0.00	0.00	0.00	0.00	0.00
(8)	100,000	0.00	0%	0.00	0.00	0.00	0.00	0.00
(9)	100,000	0.00	0%	0.00	0.00	0.00	0.00	0.00
(10)	100,000	0.00	0%	0.00	0.00	0.00	0.00	0.00
					4.535		4.477	

Comments: ~~CPI is great~~ CPI is 71 over project has over The schedule under the budget.

Q4ii Part (A)

network diagram.



Part - (B)

Activity	Procedure	Optimistic	most likely	Pessimistic	$t=\frac{(a+4m+b)}{6}$	$\sigma^2=\left(\frac{b-a}{6}\right)^2$
A		5	6	7	6	0.11
B		1	3	5	3	0.44
C		1	4	7	4	1
D	A	1	2	3	2	0.361
E	B	1	2	9	3	1.78
F	C	1	5	9	5	1.78
G	C	2	2	8	3	1
H	F	4	4	10	5	1
I	D	2	5	6	4.87	0.44
J	H,G	2	2	8	3	1

Network diagram