

Date: 06 July 2020

16L-4292

Section: E

Q2

Option 2 seems more suitable:

- Being a startup, finances are assumed to be low.
- Other company probably would be in better financial condition.
- Lengthy court procedures could force my company to financial bankruptcy.
- PR disaster for bigger company when the news hits ^{mainstream} ↓
- Bigger companies have better resources (financial and legal) to fight in court (professional)
- It would result in a financial or other [↑] benefit
- Cross-licensing agreement may not be possible because the other company would be encouraged to fight in court
- Ignoring infringement would be detrimental for company's future.

Q6

A ① Performance of old renowned plays by DRAMAF society

- It is protected by Pakistani copyright law (performance of dramatic work by students of educational institution).

② Citation and usage of publicly available research papers

- Fair dealing of work for the purpose of research in an educational environment.

B. ① Use of ^{sale and purchase} pirated books

- Pirated editions are low-cost copied alternatives of books, this causes financial loss to original copyright holder

② Use of pirated software

- Software is protected by copyright laws
- Using pirated versions is illegally copying copyrighted work.

C. ① Pomodoro Technique

- Allows me to focus on work without interruption
- Incentive of break after 20 minutes makes me focus
- Helps me achieve a better healthy lifestyle by taking frequent breaks.
- Long consecutive sessions of work hamper productivity

D. ~~Since the attacker has already compromised the network, it is suggested that the network be shutdown to avoid any information being lost.~~

→ The network should be shutdown:

- Avoid loss of sensitive information
- Avoid monetary loss and legal complications
- To restrict access of attacker
- Giving one hour time to identify attacker is not worth the risk.

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G. I could not complete my Palc Studies exam in O'levels because:

- Failed to plan beforehand
- Lost too much time in thinking the perfect answer
- Did not sleep well last night

Ways to avoid:

- Good night's sleep before important work
- Initial planning helps in structuring work better
- Using "getting ~~work~~ things done" workflow

H. ① Believing the reason of DC punishments on students

- Reasoning was same and consistent
- Published by FAST DC committee, OSAF and staff
- Backed by previous such examples

How I learned

Reason ↓ it was fake news:

- Proof given by students who were charged/punished
- Issue raised by local and international media
- OSAF (alumni society) backing down on original claims
- University management sharing inconsistent opinions on media

② SG causes coronavirus

- Mass propagation of this news

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- Industry skepticism/misinformation about technology

Reason How I realised it was fake news:

- Reading more on coronavirus and 5G
- Reputed organisations/sources refuting it
- Logical fallacies in original argument
- Previous examples of conspiracy theories against modern technology.

I Daraz does consumer profiling

- 1 July 2020
- Logged onto daraz to search something
- Later used Google to do product searches
- Later got ads by Daraz for said ^{searched} products
- Also got promotions when opened Daraz again

Q5

A few policy changes can be made:

- Use of firewall to limit network access
- Defining user roles for employees
- Create roles and user accounts to limit authority
- Delete accounts of departing employees

To safeguard against malicious insiders

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- Ban removable storage devices use (for private purposes)
- Limit use and put heavy surveillance on printers, copiers
- Limit mobile phone usage
- ~~M~~ Personal items stored separately outside main office

03

The app passes A/B tests so that means users don't sign up by choice. Applying ideal method:

- I: Most of the downloaders did not sign up
- D: The users should sign up because that is financially important for company
- E: → Force users to sign up after downloading app
→ ~~Continue giving~~
→ Put some content behind sign up paywall so they are forced to sign up.
- A: 2nd approach looks promising
- L: → It works
→ Users are only incentivized to sign up if needed so does not affect experience
→ Better for app as people are not free-loading

Q1

~~We can use the four-quadrant to-do list to help us:~~

We can solve this by these 4 options:

- Using four-quadrant to-do list to prioritize projects:
 - Do most important, due soon first
 - Followed by most important, not due soon
 - Followed by not important, due soon
 - Followed by not important, not due soon
- ~~Being~~ Approving project
- ~~Approving~~ Not approving project because of better option
- Ask her to make some changes if required to incur less cost if money is issue.
- Consider project(s) due to their importance vs. finance ratio.

Q4

Interest rate = 92% (because roll no is 16L-4292)

Compounded value if the original amount was invested would be as shown.

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$$P = 100000$$

$$r = 92\% = 0.92$$

$$n = 1$$

$$t = 5$$

A = final amount

$$= P \left(1 + \frac{r}{n}\right)^{nt}$$

$$= 100000 \left(1 + \frac{0.92}{1}\right)^{1 \times 5}$$

$$= 2609192.632$$

$$\text{Profit} = A - 100000$$

$$= 2509192.632$$

This is the scenario if he had invested the money instead of giving loan.

Finding NPV for loan scenario

	Years					
	1	2	3	4	5	Total
Revenues	20000	20000	20000	20000	20000	100000
Costs	100000	-	-	-	-	100000
Cashflow	-80000	20000	20000	20000	20000	0
PV	-40609.14	5153	2616	1328	674	-30837.77

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Using formula

$$\begin{aligned} NPV &= \sum PV \\ &= \sum_{t=1}^n \frac{R_t}{(1+i)^t} \end{aligned}$$

Since ~~NPV~~ ~~ve~~

$$\begin{aligned} \text{Opportunity cost} &= \cancel{30837.77} - 2509192.63 \\ &= \cancel{2509} \end{aligned}$$

~~Since~~ NPV is negative ^{and} ~~so~~ [↓] opportunity cost
will be

$$\begin{aligned} &2509192.63 - (-30837.77) \\ &= 2540030.40 \end{aligned}$$

It will not be recommended good for
me to give loan but should instead invest
since the opportunity cost is very positive.