N Solutions- Difficult Test

Solutions for question ι to ι :

Udupi (Spinning yarn)

Also the selling price in domestic market is Rs. 1. and in export market its 1.1% more than the domestic

market i.e. Rs. τ in the export market. The table below sums us the scenario.

Market	Cloth Sold (metres)	Selling Price (Rs.)	Revenue (Rs.)
Do mestic	71	۲۰	٤٢٠،٠٠٠،٠٠٠
Export	9	,,	0 { * , * * * , * * *
Total	******		97+,+++,+++

Latur (Wool garments)

Quantity of wool procured = 10 · · · · pounds

Cost of wool = Rs. 4. per pound

Total cost of wool = Rs. 180, ..., ...

Wool used for one garment = 1.0 pounds

Number of woolen garments that can be manufactured = \.....

Selling price of one garment = Rs. Y...

Total revenue earned = Rs. Y......

Profit earned = Rs. Y······ = Rs. ٦٥·····

Waluj (Jeans Shop)

Cost of \kilogram of raw material = Rs. \...

Raw material gets waste = $r \cdot \% = r \cdot qms$.

Raw material available for jeans = $\land \cdot \cdot gms$.

Number of jeans that can be made = $\bar{\epsilon}$.

Cost of tailoring for ¿ jeans = Rs. ¿ · · .

Total cost = Rs. \. + Rs. \. + Rs. \.

Total selling price = Rs. $\forall o \cdot \times \xi = Rs. \ \forall \xi \cdot \cdot$

1. (b) Revenue will be 97 crore

Υ. (d) As cost is not known, hence profit cannot be calculated.

۳. (a): Profit earned at present = Rs. ٦٥،٠٠٠،٠٠٠

New cost of wool = Rs. 17. per pound. So the total cost is now Rs. 14................... As the revenue is hence the new profit will be Rs. 17......................... So there is decrease of Rs. 10........................ which is a

decrease approx.

٧٠٪.

If only A-% production is then satin cloth = YE, ..., metres

Out of this $\forall \cdot \forall$ production is exported = $\forall \cdot \forall \cdot \cdot \cdot \cdot \cdot$ metres.

So, total revenue will be now = Rs. ξ٣٢, ···, ···

The revenue with full production is Rs. of

Hence, there is a decrease of Y./.

Short cut method: If production decreases by x? then be it domestic or export the quantity will decrease by x? as the both are a part of total production. And as price is constant so revenue change will be same as the production change.

Solutions for question • to A:

 \circ . (b): We needtofindthetotaltrade by Pr Total trade by Pr = total exports by Pr + total imports by Pr. To find the total exports we will be the total exports. While the imports will be the exportsofothersto Pr \circ so if we see all the values of row of Pr then that will total up to his imports.

Total tradebyPr = (total exports) + (total imports)

- $= (1 \lor + 9 + 1 \lor + \lor + \lor \xi) + (\xi \cdot + \lor \lor + \lor \land + \lor \lor)$
- = 110

Now to find the total trade between Pr and Pr we will add the exports of Pr to Pr and exports of Pr to Pr (imports of Pr from Pr). The value comes out to be = 9 + r0 = 25

As we knowinapietotalangle is more degree. So total trade of the it more degrees. So the angle subtended

1. at center bytotaltradeofPrand Pr is

(d) :				
Player	Player ۲	Export of Player \ to \	Export of Player ۲ to ۱	Winner
		το ,	το ,	
Р١	P۲	۰۰	٣٥	Р١
Р١	P٤	٤٠	17	Р١
Р١	P٤	2.2	٧٠	P٤
Р١	Р٥	οV	4./	Р٥
Р١	P٦	ĭΛ	۳٥	Р١
P۲	Р۳	₩0	1	P۲
P۲	P٤	• ^	~~ ~	P۲
Pr	Р٥	٤٣	7.6	Р٥
PY	Р٦	<u> </u>	* •	Pt
P۳	Pε	10	Y A	P٤
P۳	P٥	V	٥٣	P٥
Pr	Pτ	Y 5	٥٧	Pτ
Pr	₽₀	۸۲	٤٥	Pε
Pτ	₽t	٣٥	٦٢	Pτ
Po	₽₹	٥٢	٣٥	P∘

Rank	Player	Number of times Winner	Points
١	Р٥	٤	٨
۲	Р١	٣	٦

۲	Pr	٣	٦
۲	P٤	٣	٦
٤	Р٦	۲	٤
٥	P۳	•	•

We cannot determine the answer as there is a tie between players and we do not know how to break that tie.

v. A(d) : From the table above.

Solutions From the tidals above.

17:

According to the information given let us first see few formulas and then we can draw a table for revenues a profits a cash surplus and cumulative stock at end of each year.

Total production cost = Fixed Cost + (Cost of each unit of body \times $Y \times$ production) + (Cost of each unit of engine \times $Y \times$ production)

Total revenues = Selling Price × Sales

Cumulative Stock = (Cumulative Stock of previous year + Production – Sales)

Cash Surplus = (Cash Surplus of previous year + Revenue - Cost)

Also they have a cash surplus of we million and there is no cumulative stock at the starting of year x Note:

CS Cumulative Stock (year end)

TPC Total Production Cost (in millions)

TSR Total Selling Revenues (in millions)

TP Total Profit at end of year (in millions)

CSP Case Surplus (in millions)

Years	CS	TPC	TSR	TP	CSP
7.11	٣٠٠٠	190	7 2 •	٤٥	٥٥
7.17	7	774	7	-45	71
7.14	٤٠٠٠	270	٤٨٤	٥٩	۸۰
7.15	٧٠٠٠	٤٣٣.٤	450	-VA. £	١.٦
7.10	۸۰۰۰	071.70	٥٧٦	٤.٧٥	٦.٣٥
7.17	1	٤٦٦	٥٧٠	۱۰٤	110.00
7.17	٣٠٠٠	१७१	٤٢٠	- ٤ ٤	٦٦.٣٥
7.17	7	٤٨٠	٤٢٠	-7.	٦.٣٥
7.19	V···	£77.7	٤٢٠	-Y.Y	٤.١٥
7.7.	4	TOT. VO	٥٣٢	174.40	۱۸۲.٤

9. (b):

۱۰. (a)

11. (C):

Years	Cumulative Stock (year end)	Percentage Change
7.11	٣٠٠٠	NA
7.17	7	١٠٠.٠٠٪
7.14	٤٠٠٠	— rr . rr%
7 • 1 ٤	V···	٧٥.••٪.
7.10	۸۰۰۰	18.89%
7.17	1	— AV . 0 • /.
7.17	Y • • •	Y • • . • • ½
7.17	7	1 * * . * * //.
7.19	V	۱٦.٦٧%
7.7.	¥···	

۱۲. (b):

Years	Cash Balance Status	Percentage Change
7.11	00	٤٥٠.٠٠٪.
7.17	71	— ٦١.A٢%
7 • 1 7	۸۰	YA•.90%
7.15	۲.۱	- 9 <i>A</i> . • • /.
7.10	1.70	ΥΥ T. ΛΛ/.
7 • 17	114.70	1777.A.Y.
7 • 1 ٧	₹₹.₩٥	~ *4 . \\ \
7 • 1 ٨	₹.₩\$	
7.19	€.\s	- 76.30%
7.7.	\AY . \$	<u> </u>

Solution for question 17 to 17:

۱۳. (d):

	Day \	Day ۲	Day۳	Day ٤	Day o
Start	1	۹ ۰	1	11.	14.
Price End	۹ ۰	۸۰	11.	14.	11.

Price

Let initial amount with T_1 and T_7 is Y.

Total money with $T_1 = Y - 9 \cdot \cdot \cdot + 1 \cdot \cdot \cdot + 17 \cdot \cdot - 11 \cdot \cdot = Y + 17 \cdot \cdot \cdot$

Total money with $T_Y = Y + \gamma Y \cdot \cdot \cdot$

Therefore difference between T₁ and T₂ is Rs. 11. and Number of shares with T₂ and T₃ is same.

18. (b):

	Day 1	Day ۲	Day۳	Day ٤	Day 0
Start	1	٩٠	1	11.	1
Price End	۹ ۰	1	11.	1	1

Price

Let initial amount with T₁ and T₁ is Y.

Total Money with $T_1 = Y - 9 \cdots + 1 \cdots + 1 + 1 + \dots = Y$

Total money with Tr = Y

Therefore, Ty ended up with Rs. 1800 more cash than Ty.

Therefore at the end of day ε the price of share is Rs.

10. (d):

	Day \	Day ۲	Day۳	Day ٤	Day 0
Start	1	11.	17.	14.	17.
Price End	11.	17.	14.	17.	11.

Price

Let initial amount with T_1 and Michal is .

Ty sold shares on Day γ, Day γ, Day γ, whereas buys shares on Day ε and Day ο.

Total money with T₁ is = Y + $1/1 \cdot \times 1 \cdot + 1/1 \cdot \times 1 \cdot + 1/1 \cdot \times 1 \cdot - 1/1 \cdot \times 1 \cdot = Y$

Total money with Tr = Y + 1r.

Total money with $Tr = Y + 1r \cdot \times 1 \cdot + 1r \cdot \times 1 \cdot + 1r \cdot \times 1 \cdot = Y + rv \cdot \cdot$

Total money with $Tr & Tr = rY + o \cdots$.

Therefore maximum possible increase is

۱٦. (a):

	Day 1	Day ۲	Day + D	ay ٤	Day o
Start	1	۹ ۰	۸۰	۹ ۰	1
Price End	۹ ۰	۸۰	۹.	1	11.

Price

Assume initial number of share with T_1 and T_2 is X In the above table T_1 by Y_2 share each on day Y_3 day Y_4 and sold Y_2 shares and day Y_3 day Y_4 and Y_4 and Y_4 shares and Y_4 and

Total share with ThisX-1.

In the above Tr buyshareonlyondayr.

Total shares with TrisX+1...

Ty had yo shares morethan Ty.

Therefore at the end of day the price of share is Rs. 4..

Solutions for questions vator • :

States	Firm – A	Firm – B	Firm – C	Firm – D
51	٤٩	۸۲	۸٠	٥٥
St	٦٩	٧٢	٧٠	٦٥
31	٧٢	٦٣	٧٢	٦٥
Total				
	190	T 1 V	777	١٨٥

vv. (b) : As Fr. has highest market share hence Truthful Ltd. can be A or C. From neutral statement either B and C are aggressive and honest or A and D are aggressive and honest. According to statement (I) B is profitable then A and D are aggressive and honest. Then honest total revenue cannot be more than that of profitable hence statement (II) is false.

- VA. (C): According to statement (I) aggressive is (B). Then FVA. has to be C (as given in neutral statement). Then statement (II) is also true. FVA. has to be C (as given in neutral statement).
- $\begin{tabular}{l} $\tt V9.(C): B is honest according to Statement (I) At most only one statement can be true as both give Aggressive and Honest as firm B. Firm B cannot have two names. \\ \end{tabular}$
- ۲۰. (c): Profitable can be either A or D. Then aggressive and honest has to be B and C. Hence، truthful is A or D. And for both A and D lowest revenue is from S ،

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