### Solutions- Medium Test

# Solutions for questions \ to \{:

- (a): Per capita production of Amul butter is least in 1-15. Since, the population maximum in 1-15.
- . (d): The per capita production of Nutralite Butter was the most in ۲۰۱۳. (by observation)
- \*. (C) : At

#### ٤.(C) ؛

## Solutions for questions o to A:

7. 1107 ·= A · · · (1+r)7

R=**r**•percent

v. (a): Total Market in  $Y \cdot Y = 1.1 \times 1.1 \times 110 Y = 15 \cdots (approx.)$ 

So a percentage share of Ca in Y-Y2 =  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ \cdot}{1 \cdot \xi \cdot \cdot}$  /  $\frac{\xi \cdot \circ}{1 \cdot$ 

A. (d): Aswe do not know that what part of the market share of  $C_1$ ,  $C_7$ ,  $C_9$  has been eaten by  $C_{9}$  in what proportion. So, we cannot find the answer.

### Solutions for questions 4 to 17:

- (c): For this we need to minimize the cost for each of the task, then we will find the minimum cost.
   Minimum cost = \$ ٢٣ (Child ¿ doing Going for Morning walk) + \$ ٣٧ (Child o doing Exercise) + \$ ٢٨ (Child o doing home work) + \$ ٢١ (Child r drink Milk) + \$ ٣٤ (Child r family work) = \$ ١٤٣
- ۱٠. (b) : For this we need to maximize the cost each of the task، then we will find the maximum cost.

  Maximum Cost = \$٣٦ (Child ه doing Going for Morning walk) + \$٥٧ (Child r doing Exercise) +

  \$٥٥ (Child r doing home work) + \$٥٥ (Child r drink Milk) + \$٥١ (Child ٤ family work) = \$٢٥٤
- ۱۱. (a)

Note:

C) Chosen (Doing First works)

Cy Chosen y (Doing remaining wworks)

GM Going for Morning walk

**EX Exercise** 

CH Completing their Homework

DM Drinking Milk

AF Assisting in Family work

ToS Total Cost

C١	C۲	GM	EX	CH	DM	AF	ToS
١	۲	٣٥	٤٨	٥٥	71	٣٥	198
١	٣	٣٥	٤٨	٥٢	*1	٣٤	190

١	٤	٣٥	٤٨	٣٨	**	01	4.4
١	٥	٣٥	٤٨	٤٤	٤٢	٤٧	717
۲	١	٣١	٤٢	۲۸	٥٥	*1	١٨٢
٣	١	٤٤	٥٧	۲۸	00	77	۲۱۰
٤	١	74	٣٥	۲۸	00	77	177
٥	١	٣٦	۳۷	۲۸	00	۲٦	١٨٢
۲	٣	٣١	٤٢	٥٢	*1	٣٤	۱۸٥
۲	٤	٣١	٤٢	٣٨	**	٥١	199
۲	٥	٣١	٤٢	٤٤	٤٢	٤٧	۲٠٦
٣	۲	٤٤	٥٧	٥٥	71	٣٥	717
٤	۲	74	٣٥	٥٥	۲۱	٣٥	179
٥	۲	٣٦	۴٧	٥٥	۲۱	٣٥	۱۸٤
٣	٤	٤٤	٥٧	۴۸	**	٥١	***
٣	٥	٤٤	٥٧	٤٤	٤٢	٤٧	774
٤	٣	74	٣٥	٥٢	77	٣٤	17+
٥	٣	٣٦	٣٧	٥٢	77	٣٤	1/10
٤	٥	74	٣٥	٤٤	٤٢	٤٧	191
٥	٤	٣٦	۴٧	۴۸	**	٥١	199

Choosing Child s and Child s will be the best option for John.

۱۲. (c) : The answer can be obtained directly by increasing the answer in question ۱۱ by ه ۰٪، as all the Children increase the cost by ه ۰٪ and hence the total cost will increase by ه ۰٪ only.

 $\label{eq:continuity} \underbrace{\text{From}_{\xi \xi}(I)}_{\text{Y}=\xi \lambda}, \text{ number of average male students}$ 

From (III), number of excellent students =  $\Upsilon \xi \cdot /\Upsilon =$ 

Number of excellent female =  $17 \cdot - 0 \cdot = 7 \cdot$ 

١٢.

Erom th	oco calcul	ations, we Performan	got the f	allowing
table'. "	F	onowing		
		Total		
	Average	Good	Excellent	

Male	٤٨	٤٦	٥٠	1 2 2
Fe male	1.4	٨	٧٠	97
Total	٦٦	٥٤	14.	78.

- $1\pi$ . (b): From the above table, it is clear that number of male good students =  $\xi \tau$
- 18. (c): From the above table  $\alpha$  it is clear that number of female good students =  $\Delta$
- ۱۵. (d): Number offemalegoodstudents=۸ Number of malesaveragestudents=٤٨ Required ratio =٨: ٤٨=١: ٦
- Number of female excellent students = 170 Number of female excellent students = 170 Required fraction

Solutions for question 17 to 17:

- VV. (b):  $RY \rightarrow DY \rightarrow DRY$
- $\text{NA.} \quad (d): Number of refineries = \texttt{T}$

Number ofdepots=v

Number of districts=4

Therefore, number of possible ways to send petrol from any refinery to any district is  $\tau \times v \times \tau = \tau v \lambda$ .

(b): If youlook for large figure syou would find them in both tables in Do.

= 1197. . .

 $Y \cdot . (b) : R \rightarrow D \rightarrow DRY$ 

The leastcosttoreachtoAABisforAE. Andthat is BD to AE is zero.