महाराष्ट्र राज्य पाठ्यपुस्तक निर्मिती व अभ्यासक्रम संशोधन मंडळ,
'बालभारती', सेनापती बापट मार्ग, पुणे – ४११ ००४.
Website: www.ebalbharati.in / www.balbharati.in

शुद्धिपत्रक

Mathematics and Statistics

Commerce Part-2

Std XII

पाठ्यपुस्तकातील दुरुस्त्यांची पुरवणी

(विनामूल्य वितरणासाठी)

Mathematics and Statistics Commerce Part 2
Std XII

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 6 उजवा स्तंभ वरून 16 वी ओळ	of which the drawee receives the payment	of which the drawer receives the payment
पृष्ठ क्र. 6 उजवा स्तंभ खालून 14 वी ओळ	If the drawee of the bill wants money	If the drawer of the bill wants money
पृष्ठ क्र. 9 उजवा स्तंभ वरून चौथी ओळ	B.D. = Interest on F.V. for n at 5% p. a.	B.D. = Interest on F.V. for n days at 5% p. a.
पृष्ठ क्र. 10 उजवा स्तंभ वरून 15 वी ओळ	i.e. I.P. = L.P. - T.P.	i.e. I.P. = L.P. - T.D.
पृष्ठ क्र. 11 डावा स्तंभ उदा. 8	A bill of Rs. 6,395 drawn on 19th January	A bill of Rs. 6935 drawn on 19th January
पृष्ठ क्र. 13 डावा स्तंभ उदा. 9	on 25th May at 5.5%. Find the present worth.	on 25th May at 5.5%. Find the cash value.
पृष्ठ क्र. 13 उजवा स्तंभ उदा. 14	9th March 2006 at 6 months and was discounted on 19th April 2006 for	9th March 2006 for 6 months and was discounted on 19th April 2006 at
पृष्ठ क्र. 14 डावा स्तंभ खालून 16 वी ओळ	Net Selling price = List price - Discount $\square$ + Other charges	Net Selling price = List price - Discount + Other charges
पृष्ठ क्र. 14 डावा स्तंभ खालून 15 वी ओळ	$= 600 - \frac{\square}{100} \times 600 + \frac{2.5}{100} \times \square$	$= 600 - \frac{\square}{100} \times 600 + \frac{2.5}{100} \times \square = 525$
पृष्ठ क्र. 15 डावा स्तंभ खालून 6 वी ओळ	$\therefore$ B.D. $= \frac{s \times n \times r}{100} = 4015 - \square$ = Rs.3833.70	$\therefore$ B.D. $= \frac{s.n.r}{100} = 4015 \times \frac{206}{365} \times \frac{8}{100}$ = ₹ 181.30 C. V. = 4015 - $\square$ = ₹ 3833.70
पृष्ठ क्र. 15 उजवा स्तंभ वरून 6 वी ओळ	$\square = \square \times \frac{x}{\square} = \frac{12}{100}$	$\square = \square \times \frac{x}{\square} \times \frac{12}{100}$
पृष्ठ क्र. 18 उजवा स्तंभ खालून 15 वी ओळ	reduced to 40%	reduced by 40%
पृष्ठ क्र. 19 उजवा स्तंभ वरून 6 वी ओळ	Policy Value	**Solution :** Policy Value
पृष्ठ क्र. 19 उजवा स्तंभ वरून 21 वी ओळ	Policy Value	**Solution :** Policy Value
पृष्ठ क्र. 20 डावा स्तंभ खालून 12 वी ओळ	6000 articles costing Rs. 200 per dozen	60,000 articles costing Rs. 200 per dozen
पृष्ठ क्र. 20 डावा स्तंभ खालून चौथी ओळ	expenses are 0.075%. A cargo worth	expenses are 0.75%. A cargo worth
पृष्ठ क्र. 21 डावा स्तंभ खालून 7 वी ओळ	= 6105	= 6105.1
पृष्ठ क्र. 21 डावा स्तंभ खालून पहिली ओळ	= Rs. 4329.48	= Rs. 3790.78

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 27 डावा स्तंभ खालून तिसरी ओळ	**Solution :** Here A = Rs. 10 lakh, r = 5%,	**Solution :** Here A = Rs. 9.5 lakh, r = 5%,
पृष्ठ क्र. 27 उजवा स्तंभ वरून पाचवी ओळ	$\therefore\ 9,50,000 = \frac{C}{i}[(1+i)^n - 1]$	$\therefore 9,50,000 = \frac{C}{0.05}[(1.05)^{12} - 1]$
पृष्ठ क्र. 29 उजवा स्तंभ खालून 13 वी ओळ	The value of insured property is called	The value of property is called
पृष्ठ क्र. 29 उजवा स्तंभ खालून 10 व 11 वी ओळ	The proportion of property value to insured value is called	The value of insured property is called .....
पृष्ठ क्र. 31 डावा स्तंभ वरून 8 वी ओळ	Rs. 32,000. find the number of	Rs. 36,000. find the number of
पृष्ठ क्र. 31 डावा स्तंभ वरून 20 वी ओळ	worth Rs. 75,000 and Rs. 1,30,000	worth Rs. 75,000 and Rs. 1,50,000
पृष्ठ क्र. 31 उजवा स्तंभ वरून 11 वी ओळ	quarterly.	quarterly. $[(1.03)^{20}=1.8061]$
पृष्ठ क्र. 31 उजवा स्तंभ वरून 12 वी ओळ	Find the amount a company should set ...	Find the amount that a company should set ...
पृष्ठ क्र. 31 उजवा स्तंभ वरून 17 वी ओळ	annually.	annually. $[(1.05)^4 = 1.2155]$
पृष्ठ क्र. 31 उजवा स्तंभ खालून 12 वी ओळ	television.	television $[(1.01)^{-24} = 0.7875]$
पृष्ठ क्र. 31 उजवा स्तंभ खालून 8 वी ओळ	annually.	annually. $[(1.1)^{-3} = 0.7513]$
पृष्ठ क्र. 31 उजवा स्तंभ खालून पहिली ओळ	charged.	charged $[(1.2)^{-3} = 0.5787]$
पृष्ठ क्र. 32 डावा स्तंभ वरून 6 वी ओळ	aside every year.	aside every year. $[(1.1)^4 = 1.4641]$
पृष्ठ क्र. 32 डावा स्तंभ वरून 10 वी ओळ	compounded half yearly.	compounded half yearly. $[(1.06)^4 = 1.2625]$
पृष्ठ क्र. 32 डावा स्तंभ वरून 14 वी ओळ	a. compounded half yearly ?	a. compounded yearly ?
पृष्ठ क्र. 32 डावा स्तंभ खालून 12 वी ओळ	policy value = 10% of property value	policy value = 70% of property value
पृष्ठ क्र. 33 उजवा स्तंभ खालून पहिली ओळ	= Rs. 59,598.40	= Rs. 59,598.50
पृष्ठ क्र. 36 उजवा स्तंभ वरून चौथी ओळ	diagram as shown in Fig. 2.1	diagram as shown in Fig. 3.1
पृष्ठ क्र. 37 उजवा स्तंभ वरून 14 व 15 वी ओळ	and with respect to b (assuming a to be constant)	हा मजकूर वगळणे.
पृष्ठ क्र. 39 डावा स्तंभ वरून दुसरी, तिसरी व चौथी ओळ	$= \frac{\frac{1}{n}\sum x_i y_i - \bar{x}\bar{y}}{\frac{1}{n}\sum y_i^2 - n\bar{y}^2}$ $b_{xy} = \frac{\sum(x_i - \bar{x})\sum(y_i - \bar{y})}{\sum(x_i - \bar{x})^2}$	$= \frac{\frac{1}{n}\sum x_i y_i - \bar{x}\bar{y}}{\frac{1}{n}\sum y_i^2 - (\bar{y})^2}$ $b_{xy} = \frac{\sum(x_i - \bar{x})(y_i - \bar{y})}{\sum(y_i - \bar{y})^2}$

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 39 डावा स्तंभ वरून 10 वी ओळ	intersection of the lines regression.	intersection of the lines of regression.
पृष्ठ क्र. 40 डावा स्तंभ वरून तिसरी व चौथी ओळ	Joining the two points (35,44.8) and (45,48.6), we get the line in Fig 3.2	Joining the two points (35,44.7) and (45,48.5), we get the line in Fig 3.2
पृष्ठ क्र. 42 उजवा स्तंभ वरून 15 वी ओळ	Here, $b_{YX}\dfrac{\text{cov}(X,Y)}{\text{var}(X)}$, the slope of the line	Here, $b_{YX}=\dfrac{\text{cov}(X,Y)}{\text{var}(X)}$, the slope of the line
पृष्ठ क्र. 42 उजवा स्तंभ वरून 18 वी ओळ	$b_{XY}=\dfrac{\text{cov}(X,Y)}{\text{var}(Y)}$, the slope of the line of ...	$b_{XY}=\dfrac{\text{cov}(X,Y)}{\text{var}(Y)}$, the reciprocal of the slope of the line of ...
पृष्ठ क्र. 43 उजवा स्तंभ वरून दूसरी व तिसरी ओळ	$=\left[\left(\sigma_Y/\sigma_X\right)+\left(\sigma_X/\sigma_Y\right)\right]$ $=r\left[\left(\sigma_Y+\sigma_X\right)/\left(\sigma_X\cdot\sigma_Y\right)\right]$	$=r\left[\left(\sigma_Y/\sigma_X\right)+\left(\sigma_X/\sigma_Y\right)\right]$ $=r\left[\left(\sigma^2{}_Y+\sigma^2{}_X\right)/\left(\sigma_X\cdot\sigma_Y\right)\right]$
पृष्ठ क्र. 44 डावा स्तंभ खालून 5 वी ओळ	$b_{XY}=\dfrac{k}{h}b_{UV}$	$b_{XY}=\dfrac{h}{k}b_{UV}$
पृष्ठ क्र. 46 डावा स्तंभ वरून 13 वी ओळ	coefficients, you know they are independent ...	coefficients, you know that they are independent ...
पृष्ठ क्र. 48 डावा स्तंभ खालून 10 वी ओळ	accommodation is Rs 200	accommodation is Rs 120
पृष्ठ क्र. 50 डावा स्तंभ खालून 16 वी ओळ	and $2x+2y - 12 = 0$	and $3x+2y - 12 = 0$
पृष्ठ क्र. 51 डावा स्तंभ खालून 11 वी ओळ	Y on X	X on Y
पृष्ठ क्र. 54 उजवा स्तंभ वरून चौथी ओळ	$\sum(x_i-\bar{x})(y_i-\bar{y})=24$	$\sum(x_i-\bar{x})(y_i-\bar{y})=24, \sum x_i=32, \sum y_i=40$
पृष्ठ क्र. 54 उजवा स्तंभ उदा. 10	<table><tr><td></td><td>X</td><td>Y</td></tr><tr><td>Variance</td><td>150</td><td>165</td></tr></table>	<table><tr><td></td><td>X</td><td>Y</td></tr><tr><td>Variance</td><td>160</td><td>165</td></tr></table>
पृष्ठ क्र. 56 डावा स्तंभ खालून पहिली ओळ	... $b_{yx}=\dfrac{\square}{\sigma_x^4}=\dfrac{150}{\square}$	... $b_{yx}=\dfrac{\square}{\sigma_x^2}=\dfrac{150}{\square}$
पृष्ठ क्र. 57 उजवा स्तंभ वरून चौथी ओळ	Time Series Analysis helps us understand ...	Time Series Analysis helps us to understand ...
पृष्ठ क्र. 59 डावा स्तंभ उदा. 1	<table><tr><td>Sales</td><td>39.8</td><td>38.7</td><td>45.4</td><td>42.6</td></tr></table>	<table><tr><td>Sales</td><td>39.8</td><td>38.7</td><td>45.4</td><td>44.6</td></tr></table>
पृष्ठ क्र. 65 उजवा स्तंभ वरून तिसरी ओळ	61 = a'(0)110b'	61 = a'(0) + 110b'
पृष्ठ क्र. 65 उजवा स्तंभ वरून 13 व्या ओळी नंतर		For the year 1993, $x = 7$ $y = 43.8182 + 0.5545\ (7)$ $= 43.8182+3.8815= 47.6997$
पृष्ठ क्र. 67 डावा स्तंभ उदा. 10	<table><tr><td>Year</td><td>Production (million Barrels)</td><td>Year</td><td>Production (million Barrels)</td></tr><tr><td>1962</td><td>10</td><td>1970</td><td>6</td></tr></table>	<table><tr><td>Year</td><td>Production (million Barrels)</td><td>Year</td><td>Production (million Barrels)</td></tr><tr><td>1962</td><td>0</td><td>1970</td><td>6</td></tr></table>

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 70 डावा स्तंभ उदा. 16	to 2000	to 2010

पृष्ठ क्र. 77 डावा स्तंभ उदा. 1

Commodity	P	Q	R	S	T
Price (in Rs. in 1995)	15	20	24	22	28

Commodity	P	Q	R	S	T
Price (in Rs. in 1995)	15	20	24	23	28

पृष्ठ क्र. 77 उजवा स्तंभ उदा. 2

Commodity	A	B	C	D	E
Price (in Rs. in 1995)	42	30	54	70	120
Price (in Rs. in 2005)	60	55	74	110	140

Commodity	A	B	C	D	E
Price (in Rs. in 1995)	42	30	58	70	120
Price (in Rs. in 2005)	60	55	75	110	140

पृष्ठ क्र. 77 उजवा स्तंभ उदा. 3

Commodity	Unit	Base Year Price (in Rs.)	Current Year Price (in Rs.)
Milk	litre	35	45

Commodity	Unit	Base Year Price (in Rs.)	Current Year Price (in Rs.)
Milk	litre	32	45

पृष्ठ क्र. 77 उजवा स्तंभ उदा. 4

Commodity	Price (in Rs.) for Year 2000	Price (in Rs.) for Year 2006
Shoes	1760	2300

Commodity	Price (in Rs.) for Year 2000	Price (in Rs.) for Year 2006
Shoes	1800	2300

पृष्ठ क्र. 77 उजवा स्तंभ उदा. 5

Commodity	Unit	Price (in Rs.) for 1990	Price (in Rs.) for 1997
Butter	kg	27	33

Commodity	Unit	Price (in Rs.) for 1990	Price (in Rs.) for 1997
Butter	kg	21	33

पृष्ठ क्र. 78 डावा स्तंभ उदा. 6

Fruit	Unit	Price (in Rs.) for 2000	Price (in Rs.) for 2007
Orange	doz	36	65

Fruit	Unit	Price (in Rs.) for 2000	Price (in Rs.) for 2007
Orange	doz	33	65

पृष्ठ क्र. 78 डावा स्तंभ उदा. 7

Vegetable	Unit	Price (in Rs.) for 2005	Price (in Rs.) for 2012
Potato	kg	16	28

Vegetable	Unit	Price (in Rs.) for 2005	Price (in Rs.) for 2012
Potato	kg	18	28

पृष्ठ क्र. 78 डावा स्तंभ उदा. 8

Commodity	I	II	III	IV	V
Base Year Quantities	140	120	100	200	225

Commodity	I	II	III	IV	V
Base Year Quantities	140	120	100	200	220

पृष्ठ क्र. 78 उजवा स्तंभ उदा. 10

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
B	40	16	60	12

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
B	40	15	60	12

पृष्ठ क्र. 78 उजवा स्तंभ उदा. 11

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
C	60	18	105	14

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
C	60	19	105	14

<table>
<tr><th>पृष्ठ क्र. व तपशील</th><th>पाठ्यपुस्तकातील मूळ मजकूर</th><th>सुधारित मजकूर</th></tr>
<tr><td>पृष्ठ क्र. 81 उजवा स्तंभ खालून 11 वी ओळ</td><td>If $\sum p_0q_0 = 180, \sum p_0q_1 = 200$</td><td>If $\sum p_0q_0 = 180, \sum p_1q_0 = 200$</td></tr>
<tr><td>पृष्ठ क्र. 82 डावा स्तंभ उदा. 3</td><td>
<table>
<tr><th rowspan="2">Commodity</th><th colspan="2">Base Year</th><th colspan="2">Current Year</th></tr>
<tr><th>Price</th><th>Quantity</th><th>Price</th><th>Quantity</th></tr>
<tr><td>L</td><td>4</td><td>16</td><td>3</td><td>19</td></tr>
<tr><td>M</td><td>6</td><td>16</td><td>8</td><td>14</td></tr>
<tr><td>N</td><td>8</td><td>28</td><td>7</td><td>32</td></tr>
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<tr><td>M</td><td>6</td><td>16</td><td>2</td><td>4</td></tr>
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<tr><td>I</td><td>10</td><td>12</td><td>20</td><td>9</td></tr>
<tr><td>II</td><td>20</td><td>4</td><td>25</td><td>8</td></tr>
<tr><td>III</td><td>30</td><td>13</td><td>40</td><td>27</td></tr>
<tr><td>IV</td><td>60</td><td>29</td><td>75</td><td>36</td></tr>
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<tr><td>IV</td><td>60</td><td>9</td><td>75</td><td>36</td></tr>
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<tr><td>पृष्ठ क्र. 82 उजवा स्तंभ उदा. 6</td><td>If $\sum p_0q_1 = 350, \sum p_1q_1 = 460$</td><td>If $\sum p_1q_0 = 350, \sum p_1q_1 = 460$</td></tr>
<tr><td>पृष्ठ क्र. 84 उजवा स्तंभ वरून पहिली व दुसरी ओळ</td><td>$\text{CLI} = \frac{\text{Total expendutre in current year}}{\text{Total expendutre in base year}}$</td><td>$\text{CLI} = \frac{\text{Total expendiutre in current year}}{\text{Total expendiutre in base year}} \times 100$</td></tr>
<tr><td>पृष्ठ क्र. 87 डावा स्तंभ उदा. 2</td><td>
<table>
<tr><th rowspan="2">Group</th><th colspan="2">Base Year</th><th>Current Year</th></tr>
<tr><th>Price</th><th>Quantity</th><th>Price</th></tr>
<tr><td>Lighting</td><td>20</td><td>17</td><td>25</td></tr>
<tr><td>House Rent</td><td>60</td><td>22</td><td>70</td></tr>
<tr><td>Miscellaneous</td><td>70</td><td>25</td><td>80</td></tr>
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<tr><td>Miscellaneous</td><td>70</td><td>20</td><td>80</td></tr>
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<tr><th>Price</th><th>Quantity</th><th>Price</th></tr>
<tr><td>Food</td><td>132</td><td>10</td><td>170</td></tr>
<tr><td>Clothing</td><td>154</td><td>12</td><td>160</td></tr>
<tr><td>Fuel & Lighting</td><td>164</td><td>20</td><td>180</td></tr>
<tr><td>House Rent</td><td>175</td><td>18</td><td>195</td></tr>
<tr><td>Miscellaneous</td><td>128</td><td>5</td><td>120</td></tr>
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<table>
<tr><th rowspan="2">Group</th><th colspan="2">Base Year</th><th>Current Year</th></tr>
<tr><th>Price</th><th>Quantity</th><th>Price</th></tr>
<tr><td>Food</td><td>130</td><td>10</td><td>170</td></tr>
<tr><td>Clothing</td><td>150</td><td>12</td><td>160</td></tr>
<tr><td>Fuel & Lighting</td><td>162</td><td>20</td><td>180</td></tr>
<tr><td>House Rent</td><td>170</td><td>18</td><td>195</td></tr>
<tr><td>Miscellaneous</td><td>120</td><td>5</td><td>120</td></tr>
</table>
</td></tr>
<tr><td>पृष्ठ क्र. 92 उजवा स्तंभ उदा. 5</td><td>
<table>
<tr><th rowspan="2">Commodity</th><th colspan="2">Base Year</th><th colspan="2">Current Year</th></tr>
<tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th><th>Quantity q_1</th></tr>
<tr><td>A</td><td>20</td><td>18</td><td>30</td><td>15</td></tr>
<tr><td>B</td><td>25</td><td>8</td><td>28</td><td>5</td></tr>
<tr><td>C</td><td>32</td><td>5</td><td>40</td><td>7</td></tr>
<tr><td>D</td><td>12</td><td>10</td><td>18</td><td>10</td></tr>
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<tr><th rowspan="2">Commodity</th><th colspan="2">Base Year</th><th colspan="2">Current Year</th></tr>
<tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th><th>Quantity q_1</th></tr>
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<tr><td>B</td><td>25</td><td>8</td><td>28</td><td>4</td></tr>
<tr><td>C</td><td>32</td><td>5</td><td>40</td><td>5</td></tr>
<tr><td>D</td><td>12</td><td>10</td><td>18</td><td>20</td></tr>
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पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 92 उजवा स्तंभ उदा. 6	<table><tr><th rowspan="2">Commodity</th><th colspan="2">Base Year</th><th colspan="2">Current Year</th></tr><tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th><th>Quantity q_1</th></tr><tr><td>I</td><td>8</td><td>30</td><td>11</td><td>28</td></tr><tr><td>II</td><td>9</td><td>25</td><td>12</td><td>22</td></tr><tr><td>III</td><td>10</td><td>15</td><td>13</td><td>11</td></tr></table>	<table><tr><th rowspan="2">Commodity</th><th colspan="2">Base Year</th><th colspan="2">Current Year</th></tr><tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th><th>Quantity q_1</th></tr><tr><td>I</td><td>8</td><td>25</td><td>12</td><td>28</td></tr><tr><td>II</td><td>9</td><td>20</td><td>12</td><td>24</td></tr><tr><td>III</td><td>10</td><td>12</td><td>30</td><td>16</td></tr></table>
पृष्ठ क्र. 93 डावा स्तंभ उदा. 8	<table><tr><th rowspan="2">Commodity</th><th colspan="2">Base Year</th><th colspan="2">Current Year</th></tr><tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th><th>Quantity q_1</th></tr><tr><td>I</td><td>8</td><td>30</td><td>12</td><td>25</td></tr><tr><td>II</td><td>10</td><td>42</td><td>20</td><td>16</td></tr></table>	<table><tr><th rowspan="2">Commodity</th><th colspan="2">Base Year</th><th colspan="2">Current Year</th></tr><tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th><th>Quantity q_1</th></tr><tr><td>I</td><td>8</td><td>9</td><td>12</td><td>25</td></tr><tr><td>II</td><td>10</td><td>4</td><td>20</td><td>16</td></tr></table>
पृष्ठ क्र. 93 उजवा स्तंभ वरून 9 वी ओळ	$\sum p_1q_1 = 140,$ and $\sum p_0q_1 = 200$ find	$\sum p_1q_1 = 140,$ and $\sum p_1q_0 = 200$ find
पृष्ठ क्र. 93 उजवा स्तंभ वरून 14 वी ओळ	$\sum p_0q_1 = 160,$ and $\sum p_0q_1 = 200$	$\sum p_0q_1 = 160,$ and $\sum p_1q_0 = 200$
पृष्ठ क्र. 93 उजवा स्तंभ वरून 20 वी ओळ	Price Index Number is 120, find Paasche's	Price Index Number is 120, find Laspeyre's
पृष्ठ क्र. 93 उजवा स्तंभ उदा. 18	<table><tr><th rowspan="2">Group</th><th colspan="2">Base Year</th><th>Current Year</th></tr><tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th></tr><tr><td>Food</td><td>150</td><td>13</td><td>160</td></tr><tr><td>Clothing</td><td>170</td><td>18</td><td>150</td></tr><tr><td>Fuel & Lighting</td><td>175</td><td>10</td><td>190</td></tr><tr><td>House Rent</td><td>200</td><td>12</td><td>210</td></tr><tr><td>Miscellaneous</td><td>210</td><td>15</td><td>260</td></tr></table>	<table><tr><th rowspan="2">Group</th><th colspan="2">Base Year</th><th>Current Year</th></tr><tr><th>Price P_0</th><th>Quantity q_0</th><th>Price P_1</th></tr><tr><td>Food</td><td>140</td><td>13</td><td>160</td></tr><tr><td>Clothing</td><td>120</td><td>18</td><td>150</td></tr><tr><td>Fuel & Lighting</td><td>140</td><td>10</td><td>190</td></tr><tr><td>House Rent</td><td>160</td><td>12</td><td>210</td></tr><tr><td>Miscellaneous</td><td>180</td><td>15</td><td>260</td></tr></table>
पृष्ठ क्र. 96 उजवा स्तंभ वरून 9 वी व 12 वी ओळ	3B 3B	B B
पृष्ठ क्र. 97 डावा स्तंभ वरून 14 वी ओळ	<table><tr><th>Food/ Product</th><th>$F_1(x)$ Per Unit</th><th>$F_2(y)$ Per Unit</th><th>Minimum requirement</th></tr><tr><td>Vitamin</td><td>200</td><td>100</td><td>4000</td></tr></table>	<table><tr><th>Food/ Product</th><th>$F_1(x)$ Per Unit</th><th>$F_2(y)$ Per Unit</th><th>Minimum requirement</th></tr><tr><td>Vitamins</td><td>200</td><td>100</td><td>4000</td></tr></table>
पृष्ठ क्र. 97 उजवा स्तंभ वरून 10 वी ओळ	Since he has at most Rs 4500/- to invest,	Since he has at most Rs 45,000/- to invest,
पृष्ठ क्र. 98 उजवा स्तंभ वरून 11 वी ओळ	Rs. 55 per package of tubes .	Rs. 55 per package of tubes. If he operates machine M_1 for atmost 10 hours a day and machine M_2 for almost 12 hr. a day then.

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 99 उजवा स्तंभ वरून दुसरी ओळ	are unbounded conves sets	are unbounded convex sets
पृष्ठ क्र. 101 उजवा स्तंभ खालून 10 वी ओळ	subject to $0 \le x \le 30 \le y \le 3$, $x + y \le 5$.	subject to $0 \le x \le 3$; $0 \le y \le 3$, $x + y \le 5$.
पृष्ठ क्र. 102 उजवा स्तंभ वरून 11 वी ओळ	at any vertex of feasible region	at some vertex of feasible region
पृष्ठ क्र. 102 उजवा स्तंभ वरून 15 वी ओळ	a) Every LPP has on optional solution	a) Every LPP has an optimal solution
पृष्ठ क्र. 102 उजवा स्तंभ वरून 16 वी ओळ	b) Every LPP has unique optional solution	b) Every LPP has unique optimal solution
पृष्ठ क्र. 102 उजवा स्तंभ वरून 18 वी ओळ	c) If LPP has two optional solution the it	c) If LPP has two optimal solution then it
पृष्ठ क्र. 103 डावा स्तंभ वरून तिसरी ओळ	$x+2y \le 70$, $2x+y \le 15$, $x \ge 0$, $y \ge 0$ is	$x+2y \le 70$, $2x+y \le 95$, $x \ge 0$, $y \ge 0$ is
पृष्ठ क्र. 103 डावा स्तंभ उदा. 11	Maximum $z = 6.5x + y = 13$	Maximum $z = 6.5x + y$
पृष्ठ क्र. 103 उजवा स्तंभ वरून 5 वी ओळ	constraints	contains
पृष्ठ क्र. 103 उजवा स्तंभ वरून 8 वी ओळ	The half plane represented by $4x + 3y \ge 14$	The half plane represented by $4x + 3y \ge 24$
पृष्ठ क्र. 103 उजवा स्तंभ वरून 17 वी ओळ	equations $x \ge 0$, $y \ge 0$ lines in ...	equations $x \ge 0$, $y \ge 0$ lies in ...
पृष्ठ क्र. 105 उजवा स्तंभ वरून 7 वी ओळ	type should be make every month to obtain...	type should he make every month to obtain...
पृष्ठ क्र. 105 उजवा स्तंभ उदा. 15	manufacture per month to maximize profit?	manufactured per month to maximize profit?
पृष्ठ क्र. 106 डावा स्तंभ उदा. 1	graphical solution, with vertices 0 (,), ...	graphical solution, with vertices O (,), ...
पृष्ठ क्र. 106 उजवा स्तंभ वरून दूसरी ओळ	graphical solution, with vertices 0 (,) A (,) ...	graphical solution, with vertices O (,) A (,) ...
पृष्ठ क्र. 106 उजवा स्तंभ उदा. 4	with vertices 0 (,), A(,), B(4, 3) C (,)	with vertices O (,), A(,), B(4, 3) C (,)
पृष्ठ क्र. 107 डावा स्तंभ उदा. 5	require 6 hours on machine A and B hours	require 6 hours on machine A and 3 hours
पृष्ठ क्र. 107 डावा स्तंभ उदा. 5	require 4 hours on machine A and to hours	require 4 hours on machine A and 10 hours
पृष्ठ क्र. 107 उजवा स्तंभ वरून 14 व 18 वी ओळ	region with vertices 0 (0, 0), A(,), 1) 0(0,0)	region with vertices O (0, 0), A(,), 1) O(0,0) z = 0
पृष्ठ क्र. 113 उजवा स्तंभ उदा. 2 पहिली पायरी	<table><tr><th></th><th>I</th><th>II</th><th>III</th><th>IV</th><th>V</th></tr><tr><td>**1**</td><td>0</td><td>6</td><td>1</td><td>2</td><td>4</td></tr><tr><td>**2**</td><td>1</td><td>3</td><td>2</td><td>0</td><td>3</td></tr></table>	<table><tr><th></th><th>I</th><th>II</th><th>III</th><th>IV</th><th>V</th></tr><tr><td>**1**</td><td>0</td><td>6</td><td>1</td><td>2</td><td>5</td></tr><tr><td>**2**</td><td>1</td><td>3</td><td>2</td><td>0</td><td>4</td></tr></table>
पृष्ठ क्र. 114 डावा स्तंभ उदा. 2 चौथी पायरी	<table><tr><th></th><th>I</th><th>II</th><th>III</th><th>IV</th><th>V</th></tr><tr><td>**3**</td><td>3</td><td>2</td><td>[0]</td><td>1</td><td>2</td></tr></table>	<table><tr><th></th><th>I</th><th>II</th><th>III</th><th>IV</th><th>V</th></tr><tr><td>**3**</td><td>3</td><td>3</td><td>[0]</td><td>1</td><td>2</td></tr></table>

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 114 उजवा स्तंभ सारणी	<table><tr><th></th><th>I</th><th>II</th><th>III</th><th>IV</th><th>V</th></tr><tr><td>3</td><td>3</td><td>1</td><td>[0]</td><td>⊗</td><td>1</td></tr><tr><td>4</td><td>4</td><td>[0]</td><td>4</td><td>⊗</td><td>⊗</td></tr></table>	<table><tr><th></th><th>I</th><th>II</th><th>III</th><th>IV</th><th>V</th></tr><tr><td>3</td><td>3</td><td>2</td><td>[0]</td><td>⊗</td><td>1</td></tr><tr><td>4</td><td>4</td><td>[0]</td><td>4</td><td>1</td><td>⊗</td></tr></table>
पृष्ठ क्र. 115 उजवा स्तंभ दूसरी पायरी	<table><tr><th>Job</th><th colspan="4">Man</th></tr><tr><td></td><td>M_1</td><td>M_2</td><td>M_3</td><td>M_4</td></tr><tr><td>B</td><td>0</td><td>4</td><td>5</td><td>1</td></tr></table>	<table><tr><th>Job</th><th colspan="4">Man</th></tr><tr><td></td><td>M_1</td><td>M_2</td><td>M_3</td><td>M_4</td></tr><tr><td>B</td><td>0</td><td>4</td><td>2</td><td>1</td></tr></table>
पृष्ठ क्र. 118 डावा स्तंभ Optimal Solution	<table><tr><th>Machine</th><th>Place</th><th>Man hours</th></tr><tr><td>M_1</td><td>A</td><td>10</td></tr><tr><td>M_2</td><td>B</td><td>13</td></tr><tr><td>M_3</td><td>C</td><td>5</td></tr></table>	<table><tr><th>Machine</th><th>Place</th><th>Cost</th></tr><tr><td>M_1</td><td>B</td><td>10</td></tr><tr><td>M_2</td><td>C</td><td>13</td></tr><tr><td>M_3</td><td>A</td><td>5</td></tr></table>
पृष्ठ क्र. 123 डावा स्तंभ Total elapsed time	<table><tr><th rowspan="2">Job</th><th colspan="2">Machine A</th><th colspan="2">Machine B</th></tr><tr><th>In</th><th>Out</th><th>In</th><th>Out</th></tr><tr><td>6</td><td>20</td><td>45</td><td>45</td><td>80</td></tr><tr><td>3</td><td>45</td><td>95</td><td>95</td><td>140</td></tr><tr><td>5</td><td>95</td><td>205</td><td>205</td><td>285</td></tr></table>	<table><tr><th rowspan="2">Job</th><th colspan="2">Machine A</th><th colspan="2">Machine B</th></tr><tr><th>In</th><th>Out</th><th>In</th><th>Out</th></tr><tr><td>6</td><td>20</td><td>45</td><td>45</td><td>80</td></tr><tr><td>3</td><td>45</td><td>95</td><td>95</td><td>140</td></tr><tr><td>5</td><td>95</td><td>205</td><td>205</td><td>285</td></tr></table>
पृष्ठ क्र. 124 डावा स्तंभ वरून तिसरी ओळ	Let G and H be two fictions machines such ...	Let G and H be two fictitious machines such ...
पृष्ठ क्र. 124 उजवा स्तंभ वरून तिसरी ओळ	Let G and h be two fictitious machines such that ...	Let G and H be two fictitious machines such that ...
पृष्ठ क्र. 124 उजवा स्तंभ Total elapsed time	<table><tr><th rowspan="2">Job</th><th colspan="2">Machine A</th><th colspan="2">Machine B</th><th colspan="2">Machine C</th></tr><tr><th>In</th><th>Out</th><th>In</th><th>Out</th><th>In</th><th>Out</th></tr><tr><td>3</td><td>0</td><td>6</td><td>6</td><td>8</td><td>8</td><td>16</td></tr><tr><td>2</td><td>6</td><td>16</td><td>16</td><td>22</td><td>22</td><td>31</td></tr><tr><td>5</td><td>16</td><td>27</td><td>27</td><td>31</td><td>31</td><td>36</td></tr><tr><td>4</td><td>27</td><td>34</td><td>34</td><td>37</td><td>37</td><td>43</td></tr><tr><td>1</td><td>34</td><td>42</td><td>42</td><td>47</td><td>47</td><td>51</td></tr></table>	<table><tr><th rowspan="2">Job</th><th colspan="2">Machine A</th><th colspan="2">Machine B</th><th colspan="2">Machine C</th></tr><tr><th>In</th><th>Out</th><th>In</th><th>Out</th><th>In</th><th>Out</th></tr><tr><td>3</td><td>0</td><td>6</td><td>6</td><td>8</td><td>8</td><td>16</td></tr><tr><td>2</td><td>6</td><td>16</td><td>16</td><td>22</td><td>22</td><td>31</td></tr><tr><td>5</td><td>16</td><td>27</td><td>27</td><td>31</td><td>31</td><td>36</td></tr><tr><td>4</td><td>27</td><td>34</td><td>34</td><td>37</td><td>37</td><td>43</td></tr><tr><td>1</td><td>34</td><td>42</td><td>42</td><td>47</td><td>47</td><td>51</td></tr></table>
पृष्ठ क्र. 125 उजवा स्तंभ वरून 7 वी ओळ	head office for data entry and tiling. The time ...	head office for data entry and filing. The time ...
पृष्ठ क्र. 130 डावा स्तंभ वरून 16 वी ओळ	**Activities ... Assignment Problem**	**Activities I**
पृष्ठ क्र. 131 डावा स्तंभ खालून 5 वी ओळ	machine A, B and C on the order ABC. ...	machine A, B and C in the order ABC. ...
पृष्ठ क्र. 138 उजवा स्तंभ खालून 18 वी ओळ	$F(2)=P[X \le 2]=P[X=0]\ P[x=1]+$	$F(2)=P[X \le 2]=P[X=0]+P[x=1]+$ ....
पृष्ठ क्र. 140 उजवा स्तंभ उदा. 1	**Exercise 8.1** the difference between	**Exercise 8.1** the difference between हा मजकूर वगळणे

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 140 उजवा स्तंभ उदा. 1	**Exercise 8.1** number of heads and number of tails	**Exercise 8.1** number of heads minus number of tails ....
पृष्ठ क्र. 141 डावा स्तंभ उदा. 7	A coin is blased so that the head is 3	A coin is biased so that the head is 3
पृष्ठ क्र. 142 उजवा स्तंभ खालून 5 वी ओळ	**Solution.** Not that the internal of the p. d.	**Solution.** Note that the integral of the p. d.
पृष्ठ क्र. 143 उजवा स्तंभ वरून 5 वी ओळ	$\left[\left(1/e^{\infty}\right)-e^{0}\right]-\left(0-1\right)=1$	$-\left[\left(1/e^{\infty}\right)-e^{0}\right]=-\left(0-1\right)=1$
पृष्ठ क्र. 143 उजवा स्तंभ वरून 12 वी ओळ	$\begin{cases} kx^2\left(1-x\right) & \text{for} \quad 0<x<1 \\ 0 & \text{otherwise} \end{cases}$	$f\left(x\right)=\begin{cases} kx^2\left(1-x\right) & \text{for} \quad 0<x<1 \\ 0 & \text{otherwise} \end{cases}$
पृष्ठ क्र. 157 उजवा स्तंभ खालून 3 री ओळ	$P\left(X=x+1\right)/P\left(X=x\right)=m/x+1$	$P\left(X=x+1\right)/P\left(X=x\right)=2/\left(x+1\right)$
पृष्ठ क्र. 158 उजवा स्तंभ वरून पहिली ओळ	B.G. = ₹ 10, T.D. = 1000	B.G. = ₹ 20, T.D. = 1000
पृष्ठ क्र. 158 उजवा स्तंभ वरून 12 वी ओळ	**MISCELLANEOUS EXERCISE - 1** **I)** 8. b List Price	**MISCELLANEOUS EXERCISE - 1** **I)** 8. c List Price
पृष्ठ क्र. 158 उजवा स्तंभ वरून 15 वी ओळ	**MISCELLANEOUS EXERCISE - 1** **II)** 1. Drawee	**MISCELLANEOUS EXERCISE - 1** **II)** 1. Drawer
पृष्ठ क्र. 159 उजवा स्तंभ	Exercise 2.2 1. ₹ 21,000 4. ₹ 29,975	Exercise 2.2 1. ₹ 2,597 4. ₹ 42,475
पृष्ठ क्र. 159 उजवा स्तंभ	**MISCELLANEOUS EXERCISE - 2 II)** 10. immediate annuity R.	**MISCELLANEOUS EXERCISE - 2 II)** 10. immediate annuity OR ordinary annuity.
पृष्ठ क्र. 159 उजवा स्तंभ	**MISCELLANEOUS EXERCISE - 2 III)** 5. F	**MISCELLANEOUS EXERCISE - 2 III)** 5. T
पृष्ठ क्र. 160 डावा स्तंभ	**MISCELLANEOUS EXERCISE - 2** **IV)** 22. ₹ 31,488 24. ₹ 21,752.30	**MISCELLANEOUS EXERCISE - 2** **IV)** 22. ₹ 52,500 24. ₹ 21,778.60
पृष्ठ क्र. 160 डावा स्तंभ खालून 7 वी ओळ	**Exercise 3.1** 11) (i) y = 0.63*x* – 2.8, (ii) *y* = 3.5	**Exercise 3.1** 11) (i) *y* = 0.63*x* + 2.8, (ii) *y* = 9.1
पृष्ठ क्र. 160 डावा स्तंभ खालून दुसरी व पहिली ओळ	**Exercise 3.2** 2) (ii) 6x + 5x = 1664 3) (i) y = 0.36x + 34 (ii) x = 2.19y - 58.59	**Exercise 3.2** 2) (ii) 6x + 5y = 1664 3) (i) y = 0.36x + 35.6 (ii) x = 2.19y - 64.21
पृष्ठ क्र. 160 उजवा स्तंभ वरून चौथी ओळ	**Exercise 3.2** 5) (i) Inconsistent as $\left(b_{xy}+b_{yx}\right)/2\geq r$	**Exercise 3.2** 5) (i) Inconsistent as $\left[\left(b_{xy}+b_{yx}\right)/2\right]<r$
पृष्ठ क्र. 160 उजवा स्तंभ वरून 11 वी ओळ	**Exercise 3.2** 7) (i) *y* = 10 (ii) *c* = 23.5	**Exercise 3.2** 7) (i) *y* = 14.375 (ii) *x* = 22.33
पृष्ठ क्र. 160 उजवा स्तंभ	**Exercise 3.3** 1) $x=2,\bar{y}=8.25,r=0.6$ 3) $\bar{x}=62.5,r=0.8$ 9) (ii) Y = 19	**Exercise 3.3** 1) $\bar{x}=2,\bar{y}=8.25,r=0.6$ 3) $\bar{x}=62.4,r=0.8$ 9) (ii) $\bar{y}$ = 19

<table>
<tr><th>पृष्ठ क्र. व तपशील</th><th>पाठ्यपुस्तकातील मूळ मजकूर</th><th>सुधारित मजकूर</th></tr>
<tr><td>पृष्ठ क्र. 160 उजवा स्तंभ</td><td>Exercise 3.3
10) $\bar{x} = 30, \bar{y} = 40$
11) x on y is $10x + 3y - 62 = 0$</td><td>Exercise 3.3
10) (i) $\bar{x} = 30, \bar{y} = 40$
11) (i) x on y is $10x + 3y - 62 = 0$</td></tr>
<tr><td>पृष्ठ क्र. 161 डावा स्तंभ वरून तिसरी ओळ</td><td>13) $(\mathrm{i})\bar{x} = 17, \bar{y} = 19, (\mathrm{ii})\, b_{yx} = 3/4$</td><td>13) $(\mathrm{i})\bar{x} = 17, (\mathrm{ii})\bar{y} = 19, (\mathrm{iii})\, b_{yx} = 3/4$</td></tr>
<tr><td>पृष्ठ क्र. 161 डावा स्तंभ</td><td>MISCELLANEOUS EXERCISE - 3
II) 2) $y - \bar{y} = b_{xy}(x - \bar{x})$
7) $(d/c)\, b_{uv}$
IV) 3) Y = 8</td><td>MISCELLANEOUS EXERCISE - 3
II) 2) $y - \bar{y} = b_{yx}(x - \bar{x})$
7) $(d/c)\, b_{vu}$
IV) 3) $y = 8$</td></tr>
<tr><td>पृष्ठ क्र. 161 उजवा स्तंभ वरून 6 वी ओळ</td><td>7) i) $\overline{X} = 4, \overline{Y} = 7$</td><td>7) i) $\bar{x} = 4, \bar{y} = 7$</td></tr>
<tr><td>पृष्ठ क्र. 161 उजवा स्तंभ वरून 7 वी ओळ</td><td>8) $(X - \bar{x}) = \frac{6}{11}(Y - \bar{y})$</td><td>8) $(x - 4) = \frac{6}{11}(y - 5)$</td></tr>
<tr><td>पृष्ठ क्र. 161 उजवा स्तंभ वरून 8 वी ओळ</td><td>9) $Y = 3.75x - 39$</td><td>9) $y = 3.75x - 39$</td></tr>
<tr><td>पृष्ठ क्र. 161 उजवा स्तंभ वरून 9 वी ओळ</td><td>10) $Y = 0.7x + 105$, $Y = 133$</td><td>10) $y = 0.7x + 105$, $y = 133$</td></tr>
<tr><td>पृष्ठ क्र. 161 उजवा स्तंभ वरून 11 वी ओळ</td><td>12) r = – 0.36</td><td>12) r = – 0.36, moderate negative correlation</td></tr>
<tr><td>पृष्ठ क्र. 162 डावा स्तंभ
Exercise 4.1</td><td>6.
<table>
<tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr>
<tr><td>1978</td><td>2</td><td>1982</td><td>4.25</td></tr>
<tr><td>1979</td><td>2.5</td><td>1983</td><td>5.5</td></tr>
<tr><td>1980</td><td>3</td><td>1984</td><td>7</td></tr>
<tr><td>1981</td><td>3.5</td><td></td><td></td></tr>
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<tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr>
<tr><td>1978</td><td>2.25</td><td>1982</td><td>4.875</td></tr>
<tr><td>1979</td><td>2.75</td><td>1983</td><td>6.25</td></tr>
<tr><td>1980</td><td>3.25</td><td>1984</td><td>-</td></tr>
<tr><td>1981</td><td>3.875</td><td></td><td></td></tr>
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<tr><td>पृष्ठ क्र. 162 डावा स्तंभ
Exercise 4.1</td><td>8.
<table>
<tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr>
<tr><td>1980</td><td>4.4855</td><td>1986</td><td>9.5909</td></tr>
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<table>
<tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr>
<tr><td>1980</td><td>4.8455</td><td>1986</td><td>9.5909</td></tr>
</table></td></tr>
<tr><td>पृष्ठ क्र. 163 डावा स्तंभ</td><td>MISCELLANEOUS EXERCISE - 4
6.
<table>
<tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr>
<tr><td>1971</td><td>-</td><td>1977</td><td>4</td></tr>
<tr><td>1972</td><td>1</td><td>1978</td><td>3.75</td></tr>
<tr><td>1973</td><td>1.5</td><td>1979</td><td>4</td></tr>
<tr><td>1974</td><td>2</td><td>1980</td><td>5</td></tr>
<tr><td>1975</td><td>2.5</td><td>1981</td><td>-</td></tr>
<tr><td>1976</td><td>3.5</td><td>1982</td><td>-</td></tr>
</table></td><td>MISCELLANEOUS EXERCISE - 4
6.
<table>
<tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr>
<tr><td>1971</td><td>-</td><td>1977</td><td>3.75</td></tr>
<tr><td>1972</td><td>-</td><td>1978</td><td>3.875</td></tr>
<tr><td>1973</td><td>1.25</td><td>1979</td><td>3.875</td></tr>
<tr><td>1974</td><td>1.75</td><td>1980</td><td>4.5</td></tr>
<tr><td>1975</td><td>2.25</td><td>1981</td><td>-</td></tr>
<tr><td>1976</td><td>3</td><td>1982</td><td>-</td></tr>
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<tr><th>पृष्ठ क्र. व तपशील</th><th>पाठ्यपुस्तकातील मूळ मजकूर</th><th>सुधारित मजकूर</th></tr>
<tr><td>पृष्ठ क्र. 163 उजवा स्तंभ
MISCELLANEOUS
EXERCISE - 4</td><td>9.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1960</td><td>-</td><td>1985</td><td>5.75</td></tr><tr><td>1965</td><td>2.5</td><td>1990</td><td>6.75</td></tr><tr><td>1970</td><td>3.5</td><td>1995</td><td>8</td></tr><tr><td>1975</td><td>4</td><td>2000</td><td>-</td></tr><tr><td>1980</td><td>4.75</td><td>2005</td><td>-</td></tr></table></td><td>9.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1960</td><td>-</td><td>1985</td><td>5.25</td></tr><tr><td>1965</td><td>-</td><td>1990</td><td>6.25</td></tr><tr><td>1970</td><td>3</td><td>1995</td><td>7.375</td></tr><tr><td>1975</td><td>3.75</td><td>2000</td><td>-</td></tr><tr><td>1980</td><td>4.375</td><td>2005</td><td>-</td></tr></table></td></tr>
<tr><td>पृष्ठ क्र. 164 डावा स्तंभ
MISCELLANEOUS
EXERCISE - 4</td><td>15.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1975</td><td>-</td><td>1980</td><td>5.</td></tr><tr><td>1976</td><td>4.25</td><td>1981</td><td>7</td></tr><tr><td>1977</td><td>4.75</td><td>1982</td><td>-</td></tr><tr><td>1978</td><td>5.5</td><td>1983</td><td></td></tr><tr><td>1979</td><td>5.75</td><td></td><td></td></tr></table></td><td>15.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1975</td><td>-</td><td>1980</td><td>5.375</td></tr><tr><td>1976</td><td>-</td><td>1981</td><td>6</td></tr><tr><td>1977</td><td>4.5</td><td>1982</td><td>-</td></tr><tr><td>1978</td><td>5.125</td><td>1983</td><td>-</td></tr><tr><td>1979</td><td>5.625</td><td></td><td></td></tr></table></td></tr>
<tr><td>पृष्ठ क्र. 164 डावा स्तंभ
MISCELLANEOUS
EXERCISE - 4</td><td>17.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1990</td><td>5.8571</td><td>2010</td><td>- 0.4286</td></tr></table></td><td>17.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1990</td><td>5.8571</td><td>2010</td><td>- 0.427</td></tr></table></td></tr>
<tr><td>पृष्ठ क्र. 164 उजवा स्तंभ
MISCELLANEOUS
EXERCISE - 4</td><td>19. Equation of trend line:
$y_t = 12.4 + (0.2848)\ u$, where $u = 2t - 3927$</td><td>19. Equation of trend line:
$y_t = 2.4 + (0.2848)\ u$, where $u = 2t - 3927$</td></tr>
<tr><td>पृष्ठ क्र. 164 उजवा स्तंभ
MISCELLANEOUS
EXERCISE - 4</td><td>20.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1959</td><td>-</td><td>1964</td><td>1.8</td></tr><tr><td>1960</td><td>-</td><td>1965</td><td>1.6</td></tr><tr><td>1961</td><td>1.4</td><td>1966</td><td>3.4</td></tr><tr><td>1962</td><td>1.4</td><td>1967</td><td>-</td></tr><tr><td>1963</td><td>2</td><td>1968</td><td>-</td></tr></table></td><td>20.<table><tr><th>Year</th><th>Trend Value</th><th>Year</th><th>Trend Value</th></tr><tr><td>1959</td><td>-</td><td>1964</td><td>1.67</td></tr><tr><td>1960</td><td>1</td><td>1965</td><td>1.67</td></tr><tr><td>1961</td><td>2</td><td>1966</td><td>2.33</td></tr><tr><td>1962</td><td>2</td><td>1967</td><td>4.33</td></tr><tr><td>1963</td><td>1.33</td><td>1968</td><td>-</td></tr></table></td></tr>
<tr><td>पृष्ठ क्र. 164 उजवा स्तंभ
Exercise 5.1</td><td>1. 166.97 2. 138.92 3. 128.81
4. 171.59 5. 127.87 6. 131.26
7. 141.77 8. 74.52 10. 128.87
11. 156.63</td><td>1. 165.45 2. 137.5 3. 130.44
4. 170.7 5. 130 6. 132.08
7. 140 8. 75 10. 130.71
11. 155.28</td></tr>
<tr><td>पृष्ठ क्र. 164 उजवा स्तंभ खालून पहिली, दुसरी व तिसरी ओळ</td><td>Exercise 5.2
1. P_{01}(L) = 164.29, P_{01} (P) = 202.21,
P_{01} (D - B) = 183.25,
P_{01} (M - E) = 179.19.</td><td>Exercise 5.2
1. P_{01}(L) = 164.29, P_{01} (P) = 164.18,
P_{01} (D - B) = 164.24,
P_{01} (M - E) = 164.24.</td></tr>
<tr><td>पृष्ठ क्र. 165 डावा स्तंभ वरून तिसरी व चौथी ओळ</td><td>Exercise 5.2
3. P_{01}(L) = 96.88, P_{01} (P) = 94.47,
P_{01} (D - B) = 95.67,
P_{01} (M - E) = 95.63.</td><td>Exercise 5.2
3. P_{01}(w) = 72.11</td></tr>
</table>

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 165 डावा स्तंभ वरून 5 वी व 6 वी ओळ	Exercise 5.2 4. $P_{o1}(L) = 130.26$, $P_{o1}(P) = 129.19$, $P_{o1}(D - B) = 129.73$, $P_{o1}(M - E) = 129.64$.	Exercise 5.2 4. $P_{o1}(w) = 132.07$
पृष्ठ क्र. 165 डावा स्तंभ वरून 12 वी ओळ	Exercise 5.2 9. $z = 2$.	Exercise 5.2 9. $x = 2$.
पृष्ठ क्र. 165 डावा स्तंभ वरून 13 वी ओळ	Exercise 5.2 10. $P_{01}(D - B) = 1P_{01}(F)$	Exercise 5.2 10. $P_{01}(D - B) = \frac{5}{4} P_{01}(F)$
पृष्ठ क्र. 165 डावा स्तंभ वरून 14 वी ओळ	Exercise 5.2 11. $P_{o1}(P) = 8$ and $P_{o1}(L) = 2$ because a m.>g.m.	Exercise 5.2 11. $P_{o1}(P) = 8$ and $P_{o1}(L) = 2$ or vice versa
पृष्ठ क्र. 165 डावा स्तंभ वरून 17 वी ओळ	Exercise 5.3 2. 115.78 3. 110.67	Exercise 5.3 2. 116.25 3. 113.3
पृष्ठ क्र. 165 डावा स्तंभ वरून 19 वी ओळ	Exercise 5.3 7. 2 = 18 8. v = 6	Exercise 5.3 7. $x = 18$ 8. $y = 6$
पृष्ठ क्र. 165 डावा स्तंभ MISCELLANEOUS EXERCISE -5	II) 3. $\frac{\sum P_1 q_1}{\sum q_1 q_0} \times 100$	II) 3. $\frac{\sum p_1 q_1}{\sum p_0 q_0} \times 100$
पृष्ठ क्र. 165 उजवा स्तंभ MISCELLANEOUS EXERCISE -5	II) 6. $\frac{\sum P_1 q_1 w}{\sum q_0 q_0 w} \times 100$ 10. $\sqrt{\frac{\sum P_1 q_0}{\sum P_0 q_0} \times \frac{\sum P_1 q_1}{\sum P_0 q_1}}$ 11. $\frac{\sum_1 (q_0 + q_1)}{\sum P_0 (q_0 + q_1)} \times 100$ 12. $\frac{\sum P_1 \sqrt{q_0 q_1}}{\sum P_0 \sqrt{p_0 q_1}} \times 100$	II) 6. $\frac{\sum p_1 q_1 w}{\sum p_0 q_0 w} \times 100$ 10. $\sqrt{\frac{\sum p_1 q_0}{\sum p_0 q_0} \times \frac{\sum p_1 q_1}{\sum p_0 q_1}} \times 100$ 11. $\frac{\sum p_1 (q_0 + q_1)}{\sum p_0 (q_0 + q_1)} \times 100$ 12. $\frac{\sum p_1 \sqrt{q_0 q_1}}{\sum p_0 \sqrt{q_0 q_1}} \times 100$
पृष्ठ क्र. 165 उजवा स्तंभ	MISCELLAISEOUS EXERCISE - 5 III) 7. I?	MISCELLAISEOUS EXERCISE - 5 III) 7. F
पृष्ठ क्र. 165 उजवा स्तंभ	MISCELLAISEOUS EXERCISE - 5 IV) 5. $P_{oi}(L) = 10$ 6. 19, $P_{o1}(P) = 136.54$ 6. $P_{o1}(D - B) = 134.27$ 7. $P_{ot}(I_{ti} - E) = 107.14$ 8. $P_{oi}(W) = 177.10$	MISCELLAISEOUS EXERCISE - 5 IV) 5. $P_{o1}(L) = 136.19$, $P_{o1}(P) = 137$ 6. $P_{o1}(D - B) = 182$ 7. $P_{o1}(M - E) = 107.14$ 8. $P_{o1}(W) = 170$
पृष्ठ क्र. 166 डावा स्तंभ	MISCELLAISEOUS EXERCISE - 5 IV) 17. $E_{poqi} = 228$, $P_{01}(P) = 131.58$	MISCELLAISEOUS EXERCISE - 5 IV) 17. $\Sigma p_1 q_0 = 228$, $P_{01}(L) = 190$
पृष्ठ क्र. 166 डावा स्तंभ	Exercise 6.1 3. maximize $P = 350x \times 400y$ subject to	Exercise 6.1 3. Maximize $P = 350x + 400y$ subject to
पृष्ठ क्र. 166 उजवा स्तंभ	Exercise 6.1 7. Minimize $z = 4.5x + 3.5y$ Subject to $4x + 6y \geq 18$, $14x + 12y \geq 28$, $7x + 8y \geq 14$ $x \geq 0$, $y \geq 0$	Exercise 6.1 7. Minimize $z = 4.5x + 3.5y$ Subject to $4x + 6y \geq 18$, $14x + 12y \geq 28$, $8x + 8y \geq 14$ $x \geq 0$, $y \geq 0$

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 166 उजवा स्तंभ MISCELLANEOUS EXERCISE -6	I) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 a c b c a d c b a b b b a c c	I) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 c c b c a d c b a b b b a c c
पृष्ठ क्र. 167 डावा स्तंभ MISCELLANEOUS EXERCISE -6	15. Max z = $20x + 30y$, s.t. $2x + 2y \leq 210$, $3x + 4y \leq 300$ $x_1 y \geq 0$	15. Max z = $20x + 30y$, s.t. $3x + 2y \leq 210$, $2x + 4y \leq 300$, $x, y \geq 0$
पृष्ठ क्र. 167 डावा स्तंभ	Exercise 7.1 1. P → II Q →1V, R → I, S → III Total cost = 99 2. 1 → I, 2 → Ill, 3→IV, 4 → II, 5 → V Total cost = 39 3. 1→C, 2 →E 3 → A, 4 → D, 5 → B Total cost = 94 4. M1→A, M2 → B, M3 → E, M4 → D, M5 → C Total cost = 12	Exercise 7.1 1. P → II, Q →IV, R → I, S → III Total cost = ₹ 99 2. 1 → I, 2 → III, 3→IV, 4 → II, 5 → V Total mileage = 39 miles 3. 1→C, 2 →E 3 → A, 4 → D, 5 → B Total profit = ₹ 214 4. M1→A, M2 → B, M3 → E, M4 → D, M5 → C Total cost = ₹ 12
पृष्ठ क्र. 167 उजवा स्तंभ वरून पहिली ओळ	= 61	= ₹ 61
पृष्ठ क्र. 167 उजवा स्तंभ वरून 13 ते 16 वी ओळ	Exercise 7.2 3. Optimal sequence is : 3 -1- 2 Idle time for date entry operation = 140 min. Total elapsed time = 430 minutes Idle time for filing = 80 min. 5. Optimal sequence is : VII - I - IV - V - III - II - VI Idle time for machine. Idle time for machine B = 13. Total elapsed time = 91 units. 6. 2) Total elapsed time = 40 OR	Exercise 7.2 3. Optimal sequence is : 1 -2- 3 Idle time for data entry operation = 100 min. Total elapsed time = 490 minutes Idle time for filing = 140 min. 5. Optimal sequence is : VII - I - IV - V - III - II - VI OR VII - I - IV - V - II - III - VI Idle time for machine A = 5 units. Idle time for machine B = 13. Total elapsed time = 91 units. 6. 2) Total elapsed time = 40 OR 5 - 2 - 4 - 3 - 1
पृष्ठ क्र. 168 डावा स्तंभ वरून पहिली, दुसरी व तिसरी ओळ	2 - 5 - 4 - 3 - 1 Idle times for machine A = 8 hrs. Idle time for machine C = 12 hrs and machine B is 25 hrs.	2 - 5 - 4 - 3 - 1 Total elapsed time = 40 hrs. Idle times for machine A = 8 hrs, machine C = 12 hrs and machine B = 25 hrs.
पृष्ठ क्र. 168 डावा स्तंभ वरून चौथी ते 8 वी ओळ	7. Optimal sequence is : Total elapsed time = 51 hrs. Idle time for machine A = 19 hrs. Idle time for machine B = 31 hrs. 1 - 4 - 5 - 2 - 3. Ideal time for machine C = 9 hrs.	7. Optimal sequence is : D - A - E - B - C OR A- D - E - B - C OR E - D - A - B - C Total elapsed time = 51 hrs. Idle time for machine P = 19 hrs. Idle time for machine Q = 31 hrs. Ideal time for machine R = 9 hrs.
पृष्ठ क्र. 168 डावा स्तंभ खालून तिसरी ओळ	PART - I IV) 1. A → I, B →III, C →II, D → IV; Minimum cost = 37	PART - I IV) 1. A → I, B →III, C →II, D → IV; Minimum man hours = 37
पृष्ठ क्र. 168 डावा स्तंभ खालून पहिली ओळ	PART - I IV) 2. A →II, B →III, C → V, D →I, E → IV; mar hrs Minimum cost = 525 kms	PART - I IV) 2. A →II, B →III, C → V, D →I, E → IV; Minimum distance travelled = 525 kms

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 168 उजवा स्तंभ वरून दुसरी ओळ	3. A → V, B →II, C → IV, D → III, E →I; Maximum Sale = 65	3. A → V, B →II, C → IV, D → III, E →I; Maximum Sale = 65 units
पृष्ठ क्र. 168 उजवा स्तंभ वरून तिसरी ओळ	4. P→IV, Q → III, R → V, S →I, X →II;	4. P→IV, Q → III, R → V, S →I, T →II;
पृष्ठ क्र. 168 उजवा स्तंभ वरून 6 वी व 7 वी ओळ	6. E_1 →1, E_2 →IV, E_3 → II, E_4 → V, E_8 → III Total Expenditure = 20.	6. E_1 →1, E_2 →IV, E_3 → II, E_4 → V, E_5 → III Minimum number of days = 27.
पृष्ठ क्र. 168 उजवा स्तंभ वरून 14, 15 व 16 वी ओळ	PART - II 2. Optimal sequence: II–IV–V–III–I; Idle time for cutting = 4 hrs; Total elapsed time – 21 hrs Idle time for sewing 3 hrs	PART - II 2. Optimal sequence: II–IV–V–III–I; Idle time for Lathe = 4 hrs; Total elapsed time = 21 hrs Idle time for surface grinder = 3 hrs
पृष्ठ क्र. 168 उजवा स्तंभ वरून 18 व 20 वी ओळ	3. Optimal sequence: III–V–II–VI–I–IV–VII; Idle time for cutting = 3 hrs; Total elapsed time 55 hrs Idle time for sewing 9 hrs	3. Optimal sequence: III–V–II–VI–I–IV–VII; Idle time for machine A = 3 hrs; Total elapsed time 55 hrs Idle time for machine B = 9 hrs
पृष्ठ क्र. 168 उजवा स्तंभ खालून 15 व 16 वी ओळ	4. Optimal sequence: 3–2–5–4–1; Idle time for machine A = 18 hrs; Idle time for machine B = 62 hrs Idle time for machine C = 38 hrs Total elapsed time 102 hrs.	4. Optimal sequence: 3–2–5–4–1; OR 3–2–1–4–5 OR 3–2–5–1–4 Idle time for machine A = 18 hrs; Idle time for machine B = 62 hrs Idle time for machine C = 38 hrs Total elapsed time 102 hrs.
पृष्ठ क्र. 168 उजवा स्तंभ खालून 7, 9 व 10 वी ओळ	5. Optimal sequence is : 3–1–4–2; Idle time for machine P = 12 min.; Idle time for machine R = 31 min. Total elapsed time = 74 min. Idle time for machine Q = 51 min.	5. Optimal sequence is : 3–1–4–2; Idle time for Shapping = 12 min.; Idle time for Trapping = 31 min. Idle time for Drilling = 51 min. Total elapsed time = 74 min.
पृष्ठ क्र. 168 उजवा स्तंभ खालून 5 वी ओळ	Exercise 8.1 1. {0, 2, 4, 6}	Exercise 8.1 1. {–6, –4, –2, 0, 2, 4, 6}
पृष्ठ क्र. 169 डावा स्तंभ उदा. 6	6. $P(x)$ | $4/5\ (1/5)^3$ | $(1/5)^4$ |	6. $P(x)$ | $4\ (4/5)(1/5)^3$ | $(1/5)^4$ |
पृष्ठ क्र. 169 उजवा स्तंभ उदा. 15	15. Mean = 17.5333, Variance = 5.12381	15. Mean = 17.5333, Variance = 4.9
पृष्ठ क्र. 169 उजवा स्तंभ	Exercise 8.2 1. (i) p. d. f. (ii) p. d. f. 3. (ii) 1/256 (iii) 5/16 4. (i) 1/2, 35/64 (ii) 6, (a) 11/32, (b) 1/12 5. (a)1/4 (b) 1/2 (c) 7/16 7. (i) 1/2 (ii) 11/16 (iii) 81/128 10. (iii) $\frac{4[\log 3-1]}{[\log 3]^2}$	Exercise 8.2 1. (i) p. d. f. (ii) not p. d. f. 3. (i) p. d. f. (ii) 1/256 (iii) 5/16 4. (i) 1/2, 3/64 (ii) 6, (a) 11/32, (b) 1/2 5. (i)1/4 (ii) 1/2 (iii) 7/16 7. k = 3/32 (i) 1/2 (ii) 11/16 (iii) 81/128 10. (iii) $\frac{4[\log 3-1]}{[\log 3]^2}, F(x)=\frac{\log x}{\log 3}, 1<x<3$
पृष्ठ क्र. 169 उजवा स्तंभ	Exercise 8.3 2. 5/12 3. $1.3 \times (0.9)^3$ 4. (i) $1/13^4$ (ii) $12/13^4$ (iii) $(12/13)^4$ 6. (9/10)4 8. $(1/2)(5/6)^5$ 9. (i) 4 , 2.4 (ii) 6, 2.4 (iii) 2/5 (iv) 0.16	Exercise 8.3 2. 5/72 3. $1.3 \times (0.9)^3 = 0.9477$ 4. (i) 1/1024 (ii) 45/512 (iii) $(3/4)^5 = 0.2373$ 6. $(9/10)^4$ 8. $70/36 \times (5/6)^4$ 9. (i) 4 , 2.4 (ii) 10, 2.4 (iii) 2/5, 6 (iv) 1.6

पृष्ठ क्र. व तपशील	पाठ्यपुस्तकातील मूळ मजकूर	सुधारित मजकूर
पृष्ठ क्र. 170 डावा स्तंभ	Exercise 8.4 3. 0.8008 7. (i) 0.1754 (ii) 0.3840 (iii) 0.4261	Exercise 8.4 3. 0.8012 7. (i) 0.1744 (ii) 0.3875 (iii) 0.4236
पृष्ठ क्र. 170 उजवा स्तंभ उदा. 5	5. $F(x)$ | 1/20 | 1/5 | 9/20 | 10/20 | 1	5. $F(x)$ | 1/20 | 1/5 | 9/20 | 19/20 | 1
पृष्ठ क्र. 170 उजवा स्तंभ खालून 15 वी ओळ	9.	9. $P(-1 \le \times \le 2) = 0.55$
पृष्ठ क्र. 170 उजवा स्तंभ खालून 9 वी ओळ	11. ₹ 5.5, 8.25	11. ₹ 5.5, ₹ 8.25
पृष्ठ क्र. 170 उजवा स्तंभ	13. (i) 1/2 (ii) 2/3 (iii) 1 0, 1 14. (i) 1/2, (ii) 11/16, (iii) 81/ 128 15. Both probabilities are 1/4 and hence are equal. 16. $k = \theta, 1/e, \frac{1}{\theta}\log 2$ 17. k = 1/4, F(2) = $\frac{\sqrt{2}}{2}$, P(X ≥ 1) = 1/2	13. (i) 1/2 (ii) 11/16 (iii) 81/128 14. Both probabilities are 1/4 and hence are equal. 15. $k = \theta, 1/e, \frac{1}{\theta}\log 2$ 16. k = 1/4, F(2) = $\frac{1}{\sqrt{2}}$, P(X ≥ 1) = 1/2
पृष्ठ क्र. 171 डावा स्तंभ वरून पहिली ओळ	18. 1/2	17. 1/2
पृष्ठ क्र. 171 डावा स्तंभ वरून तिसरी ओळ	PART - II 1. (iii) 1 – (8,2) $(0.2)^9$	PART - II 1. (iii) 1 – (8.2) $(0.2)^9$
पृष्ठ क्र. 171 डावा स्तंभ वरून 7 वी ओळ	3. (i) 63/256, (ii) 1/1024	3. (i) 1/4, (ii) 1/16
पृष्ठ क्र. 171 डावा स्तंभ वरून 8 वी ओळ	4. $45\frac{4^8}{5^{10}}$	4. $\frac{128}{625}$
पृष्ठ क्र. 171 डावा स्तंभ खालून तिसरी ओळ	8. $\frac{761}{510}$	8. $\frac{1}{64}$
पृष्ठ क्र. 171 डावा स्तंभ खालून दुसरी ओळ	9. (i) $(0.998)^8$	9. (i) 0.729
पृष्ठ क्र. 171 डावा स्तंभ खालून पहिली ओळ	10. (i) $(0.9)^{10}$ (ii) $(0.9)^9$	10. (i) 0.729 (ii) 0.243
पृष्ठ क्र. 171 उजवा स्तंभ वरून पहिली ओळ	11. (i) $\left(\frac{1}{5^4}, \frac{16}{54}\right)\frac{96}{5^4}, \frac{256}{5^4}, \frac{256}{5^4}$	11. (i) 0.4096
पृष्ठ क्र. 171 उजवा स्तंभ वरून दुसरी ओळ	11. (ii) (a) $\frac{608}{5^4}$ (b) $1-\frac{33}{5^4}$	11. (ii) 0.8192
पृष्ठ क्र. 171 उजवा स्तंभ वरून तिसरी ओळ	12. (i) $\frac{35\times 8\times 81}{5^7}$ (ii) $1-17\frac{3^6}{5^7}$	12. (i) $\frac{560}{2187}$ (ii) $\frac{416}{729}$
पृष्ठ क्र. 171 उजवा स्तंभ वरून चौथी ओळ	13. (i) 0.3687, (ii) 0.0613	13. $m = 1$, $v(x) = 1$

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