# Cost Accounting B.Com Part 2 Solved Past Papers 

## SOLVED PAPER 2016

## QUESTION NO 1

1. 

## Bel Cold Refrigerator Company

## Income statement

For the period of 3 months ended March 31, 2015

| Sales (12,400 units) | Rs. |  |
| :--- | ---: | ---: |
| Less: Cost of goods sold: | $6,634,000$ |  |
| Direct material inventory (1-1-15) | 268,000 |  |
| Add: Direct material purchased | $1,946,700$ |  |
| Direct material for sale | $2,214,700$ |  |
| Less: Direct material inventory (31-3-15) | 167,000 |  |
| $\quad$ Direct material consumed | $2,047,700$ |  |
| Add: Direct labour | $2,125,800$ |  |
| FOH | 764,000 |  |
| Cost of goods manufactured | $4,937,500$ |  |
| Add: Finished goods (1-1-15) | $4,980,500$ |  |
| Cost of goods available for sale | 79,000 |  |
| Less: Finished goods ending inventory |  | $4,901,500$ |
| Cost of goods sold |  | $1,732,500$ |
| Goods profit | 516,000 |  |
| Less: Operating expenses | 461,000 | 977,000 |
| Marketing expenses |  | 755,500 |

## 2. The number of units manufactured:

Unit sold12,400

+ Units on hand (31-3-15)


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Less: Units on hand (1-1-15)
Units manufactured
3. Units cost of refrigerator $=\frac{R s .3,937,500}{R s .12,500}=R s .395$
4. Gross profit per unit sold $=\frac{1,732,500}{12,400}=$ Rs. 139.71
5. Income per unit sold $=\frac{755,500}{12,400}=R s .60 .92$
6. The ratio of G.P to sales $=\frac{1,732,500}{6,634,000}=26.11 \%$
7. Income to sales $=\frac{755,500}{6,634,000}=11.388 \%$

## QUESTION NO 2

G.P to sales ratio $=\frac{220,000+230,000+250,000+270,000+280,000}{650,000+700,000+750,000+800,000+850,000} \times 100$

$$
=\frac{1,250,000}{3,750,000} \times 100=\frac{100}{3} \% \text { or } 33 \times \frac{1}{3} \%
$$

Gross profit $\quad=450,000 \times 33 \times 1 / 3 \%=$ Rs. 150,000
Cost of goods sold for $200 \mathrm{~F}=450,000-150,000=$ Rs. 300,000
Statement Showing WIP Inventory Lost and Fire:

|  | Rs. | Rs. |
| :--- | ---: | ---: |
| Raw material opening | 20,000 |  |
| Add: Purchases | 175,000 |  |
| Freight | 7,000 | 182,000 |
| Raw material available for use | 202,000 |  |
| Less: Raw material ending inventory | 30,000 |  |
| Raw material used | 172,000 |  |
| Add: Direct labour | 80,000 |  |
| FOH applied $(80,000 \times 60 / 100)$ | 48,000 |  |
| Total factory cost | 300,000 |  |

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Add: WIP Opening inventory ..... 400,000
Total cost of works to be accounted ..... 340,000
Less: WIP ending inventory ..... 50,000
Cost of goods manufactured ..... 290,000
Add: Finished goods opening inventory ..... 60,000
Cost of goods available for sale ..... 350,000
Less: Ending finished goods inventory ..... 50,000
Cost of goods sold (estimated) ..... 300,000

Note: After going reverse the value of WIP = Rs. 50,000

## QUESTION NO 3

## 1. Variable FOH cost

|  | Level | Budget |
| :--- | :--- | :--- |
| High <br> Low <br> Change | $16,000 \mathrm{hrs}$ | Rs. 42,000 |
|  | $10,000 \mathrm{hrs}$ | 30,000 |
|  | $6,000 \mathrm{hrs}$ | Rs. 12,000 |

## 2. Budgeted Fixed FOH:

Budgeted FOH for $16,000 \mathrm{hrs}$
Less: Budgeted variable FOH
3. The capacity hours at which FOH applied rate is computed
$=\frac{\text { Fixed } \mathrm{FOH}}{\text { Applied rate-Variable rate }}=\frac{\text { Rs. } 10,000}{\text { Rs. } 3-2}=10,000 \mathrm{hrs}$
4. Applied $\mathrm{FOH}=$ Actual volume $\times \mathrm{FOH}$ applied rate

$$
=15,000 \mathrm{hrs} \times \text { Rs. } 3=\text { Rs. } 45,000
$$

5. Under or overapplied FOH:

| Actual FOH | Rs. 44,000 |
| :--- | ---: |
| Applied FOH | 45,000 |
| Overapplied FOH | 1,000 |

6. Budget variance:

Actual FOH
Rs. 44,000

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2016
$\begin{array}{lr}\text { Budgeted FOH (Fixed Rs. } 10,000+\text { Variable } 15,000 \times 2 \text { ) } & 40,000 \\ \text { Budget variance (Unfavorable) } & 4,000\end{array}$
7. Capacity Variance:

Budget FOH for capacity attained
Rs. 40,000
Actual FOH
46,000
Capacity variance (favorable)
5,000

## QUESTION NO 4

## Suleman Manufacturing Co.

## Income statement

For the month of Feb, 20....
Rs.
Rs.

## Sales

75,000
Less: Cost of sold goods 56,000
Gross profit 19,000
Less: Operating expenses:
Marketing expenses 3,750
General and admin expenses 7,500
11,250
Net income $\quad \mathbf{7 , 7 5 0}$

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## Cost of goods

Manufactured \& Statement
For the month of Feb, 20....

|  |  | Rs. |
| :--- | :--- | ---: |
| Material opening | 8,000 |  |
| $(+)$ | Purchases | 38,600 |
|  | Material available for use | 146,600 |
| $(-)$ | Material ending | 8.600 |
|  | Material used | 38,000 |
| $(+)$ | Direct labour (160\% FOH) | 16,000 |
|  | FOH (16,000 $\times 100 / 160)$ | 10,000 |
|  | Total factory cost | 64,000 |
| $(+)$ | WIP opening inventory | 8,000 |
|  | Cost of goods to be manufactured | 72,000 |
| $(-)$ | WIP ending inventory | 12,000 |
|  | Cost of goods manufactured | 60,000 |
| $(+)$ | Finished goods opening inventory | 14,000 |
|  | Cost of goods to be sold | 74,000 |
| $(-)$ | Finished goods ending inventory | 180,000 |
|  | Cost of goods sold | 56,000 |

## Rs.

$\begin{array}{ll}\text { Material opening } & 8,000\end{array}$
$(+)$ Purchases 38,600
Material available for use $\quad 146,600$
$(-) \quad$ Material ending $\quad 8.600$
Material used 38,000
(+) Direct labour $(160 \% \mathrm{FOH}) \quad 16,000$
FOH $(16,000 \times 100 / 160) \quad 10,000$
Total factory cost ( 64,000

Cost of goods to be manufactured 72,000

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## QUESTION NO 5

## Computations of Total and Hourly Earnings:

## Arshad:

| Taken time | $=210 \mathrm{hrs}$ |
| :--- | :--- | :--- |
| Time saved | $=\mathrm{Nil}$ |
| Total earning | $=210 \times 25 \quad=$ Rs. 250 |
| Earning per hour | $=\frac{5,250}{210} \quad=$ Rs. 25 |

## Amjad:

Time taken

$$
=160 \mathrm{hrs}
$$

Time saved

$$
=200-160=40 \mathrm{hrs}
$$

Total earnings:
Normal $=25 \times 160=$ Rs. 4,000
Bonus

$$
=25 \times 40 \times \frac{10}{100}=100 \quad \text { Rs. } 4,100
$$

Earning per hour
$=4,100 \div 160=$ Rs. 25.625

## Nazar:

| Time taken | $=120 \mathrm{hrs}$ |
| ---: | :--- |
| Time saved | $=200-120=80 \mathrm{hrs}$ |

Total earnings:
Normal $=25 \times 120=$ Rs. 3,000
Bonus: $1^{\text {st }} 40$ hours 100
Next 40 hours $(40 \times 25 \times 25 / 100) \quad 250$
3,350
Earning per hour

$$
=\frac{3,350}{120}=R s .27 .92
$$

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## Naheed:

| Time taken | $=50 \mathrm{hrs}$ |
| :--- | :--- |
| Time saved | $=200-50=150 \mathrm{hrs}$ |

Total earnings:
Normal $=50 \times 25=$ Rs. 1,250
Bonus: $1^{\text {st }} 40$ hours 100
Next 40 hrs 250
Next 60 hrs $(25 \times 60 \times 50 / 100) \quad 750$
Next 10 hrs $(25 \times 10 \times 30 / 100) \quad 75$

Earning per hour

$$
\begin{aligned}
& 2,375 \\
= & \frac{2,375}{50}=R s .47 .50
\end{aligned}
$$

## QUESTION NO 6

1. Budgeted fixed FOH $=850,000 \times 1.50 \times 0.40=$ Rs. 510,000
2. Under or over applied FOH:

Actual FOH
Rs. 1,100,000
Applied FOH ( $750,000 \times 1.50$ )
1,125,000
Over applied FOH
25,000
3. Volume variance:

Budgeted FOH for capacity attained
Fixed FOH 510,000
Variable FOH $750,000 \times 1.50 \times 0.60 \quad 675,000$
1,185,000
Applied FOH ( $750,000 \times 1.50$ )
1,125,000
Volume variance (Unfavorable)
60,000
4. Budget variance:
Actual FOH
Rs. $1,100,000$

Budgeted FOH for capacity attained
1,185,000
Budget variance (favorable) $\quad 85,000$

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## QUESTION NO 7

| Standard rate per hour | $=\frac{160}{8}=$ | Rs. 20 |
| :--- | :--- | :--- |
| Standard piece rate | $=\frac{20}{80}=$ | Rs. 0.25 |

1. Straight Piece Rate Basis:

Wages earned $(0.25 \times 800)=$ Rs. 200
Labour cost per 100 pieces $=\frac{200}{800} \times 100=\quad$ Rs. 25
2. Halsey Bonus System:

Regular wages ( $8 \mathrm{hrs} \times 20$ ) $=160$
Bonus $(800 / 80-8)(20)(50 \%)=20$
Wages earned Rs. 180
Labour cost per 100 pieces $=\frac{180}{800} \times 100 \quad$ Rs. 22.50
3. Straight Line Rate with Bonus:

Regular wages $(8 \times 20)=$ Rs. 160.00
Bonus ( $800-640$ ) $\div 100 \times 23=36.80$
Wages earned Rs. 196.80

Labour cost per 100 pieces $=\frac{196.80}{800} \times 100=\quad$ Rs. 24.60

