# SOLVED PAPER 2016

## **QUESTION NO 1**

### Bel Cold Refrigerator Company

#### **Income statement**

### For the period of 3 months ended March 31, 2015

	Rs.	Rs.
Sales (12,400 units)		6,634,000
Less: Cost of goods sold:		
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	
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)	43,000	
Cost of goods available for sale	4,980,500	
Less: Finished goods ending inventory	79,000	
Cost of goods sold		4,901,500
Goods profit		1,732,500
Less: Operating expenses		
Marketing expenses	516,000	
General and administrative expenses	461,000	977,000
Net Income		755,500
2. <u>The number of units manufactured:</u>		
Unit sold	12,400	
+ Units on hand (31-3-15)	200	
www.paksights.com www.fb.com/bcomstudymaterial		0302-5148843

1.

	12,600
Less: Units on hand (1-1-15)	100
Units manufactured	12,500

- 3. Units cost of refrigerator =  $\frac{Rs. 3,937,500}{Rs. 12,500} = Rs. 395$
- 4. Gross profit per unit sold =  $\frac{1,732,500}{12,400}$  = Rs. 139.71
- 5. Income per unit sold =  $\frac{755,500}{12,400} = Rs. 60.92$
- 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	$=\frac{220,000+230,000+250,000+270,000+280,000}{650,000+700,000+750,000+800,000+850,000}\times 100$
	030,000 1700,000 1730,000 1000,000 1030,000
	$=\frac{1,250,000}{3,750,000} \times 100 = \frac{100}{3}\% \text{ or } 33 \times \frac{1}{3}\%$
~ ~ ~	$\sim \sim $
Gross profit	$= 450,000 \times 33 \times 1/3\% = $ Rs. 150,000
	A 01
Cost of goods sold for	or $200F = 450,000 - 150,000 = Rs. 300,000$
-	
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 × 60/100)		48,000
Total factory cost		300,000

www.paksights.com

www.fb.com/bcomstudymaterial

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	16,000 hrs	Rs. 42,000
Low	10,000 hrs	30,000
Change	6,000 hrs	Rs. 12,000

### 2. <u>Budgeted Fixed FOH:</u>

Budgeted FOH for 16,000 hrs	- Al	Rs. 42,000
Less: Budgeted variable FOH	0	32,000
Fixed FOH	/ • /	Rs. 10,000

### 3. The capacity hours at which FOH applied rate is computed

 $=\frac{Fixed FOH}{Applied rate-Variable rate} = \frac{Rs. \ 10,000}{Rs. \ 3-2} = 10,000 \ hrs$ 

### 4. <u>Applied FOH = Actual volume × FOH applied rate</u>

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

5.	Under or overapplied FOH:	
	Actual FOH	Rs. 44,000
	Applied FOH	45,000
	Overapplied FOH	1,000

6. <u>Budget variance:</u> Actual FOH

Rs. 44,000

www.paksights.com

	Budgeted FOH (Fixed Rs. 10,000 + Variable 15,000 × 2) Budget variance (Unfavorable)	40,000 4,000
7.	<u>Capacity Variance:</u> Budget FOH for capacity attained Actual FOH Capacity variance (favorable)	Rs. 40,000 46,000 5,000

# **QUESTION NO 4**

## Suleman Manufacturing Co.

Income st	atement	
For the month	of Feb, 20	
	Rs.	Rs.
Sales	X?	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		7,750

### Cost of goods

### Manufactured & Statement

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

		183.
Mate	rial 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 × 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

Note: the cost of goods sold statement is completed with the help of given cost of goods sold. From bottom to top we find purchases not given.

Rs.

## **QUESTION NO 5**

#### **Computations of Total and Hourly Earnings:**

### Arshad:

Taken time	= 210 hrs	
Time saved	= Nil	
Total earning	= 210 × 25	= Rs. 250
Earning per hour	$=\frac{5,250}{210}$	= Rs. 25

### <u>Amjad:</u>

Time taken	= 160 hrs	), ),
Time saved	= 200 - 160 = 40 hrs	
Total earnings:		
Normal	$= 25 \times 160 = $ Rs. 4,000	
Bonus	$= 25 \times 40 \times \frac{10}{100} = 100$	Rs. 4,100
Earning per hour	$=4,100 \div 160$ = Rs. 25.6	525
••	NN	

#### <u>Nazar:</u>

Time taken	= 120 hrs	
Time saved	= 200 - 120	= 80 hrs
Total earnings:		
Normal	= 25 × 120	= Rs. 3,000
Bonus: 1 <sup>st</sup> 40 hours		100
Next 40 hours $(40 \times 25 \times 25)$	250	
		3,350
Earning per hour		$=\frac{3,350}{120}=Rs.27.92$

### Naheed:

	Time taken	= 50 hrs			
	Time saved	= 200 - 50	= 150 hrs		
	Total earnings:				
	Normal	$= 50 \times 25$	= Rs. 1,250		
	Bonus: 1 <sup>st</sup> 40 hours		100		
	Next 40 hrs		250		
	Next 60 hrs $(25 \times 60 \times 50/10)$	00)	750		
	Next 10 hrs $(25 \times 10 \times 30/10)$	00)	75		
			2,375		
	Earning per hour		$=\frac{2,375}{50}=Rs$	.47.50	
	01		50		
		OUDOT			
		QUESI	<u>'ION NO 6</u>		
1.	Budgeted fixed FOH $= 850$	.000 × 1.50 × (	0.40	=	Rs. 510,000
2.					)
	Actual FOH	62			Rs. 1,100,000
	Applied FOH (750,000 × 1.5	50)			1,125,000
	Over applied FOH	$\theta$ .			25,000
3.	Volume variance:				
	Budgeted FOH for capacity	attained			
	Fixed FOH			510,000	
	Variable FOH 750,00		50	675,000	1,185,000
	Applied FOH (750,000 $\times$ 1.5	/			1,125,000
4	Volume variance (Unfavoral	ole)			60,000
4.	Budget variance:				
	Actual FOH				Rs. 1,100,000
	Budgeted FOH for ca	apacity attained	d		1,185,000
	Budget variance (favorable)				85,000

		QUESTION N	NO 7			
Standa	rd rate per hour	$=\frac{160}{8}=$	Rs. 20			
Standa	ard 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	$=\frac{200}{800} \times 100=$	Rs. 25			
2.	Halsey Bonus System:					
	Regular wages (8 hrs $\times$ 20)					
	Bonus (800/80 - 8)(20)(50%					
	Wages earned	Rs. 180				
	Labour cost per 100 pieces	$=\frac{180}{800} \times 100$	Rs. 22.50			
3.	Straight Line Rate with Bo	nus:	cO			
	Regular wages (8×20)					
	Bonus (800-640) ÷ 100 × 23	= 36.80	2			
	Wages earned	Rs. 196.80				
	Labour cost per 100 pieces	$=\frac{196.80}{800} \times 100 =$	Rs. 24.60			
	D,					
	A.					