**INTERMEDIATE – MOCK TEST** 

-	ALL BATCI	-	1/ Hours
.: 23.07.2018 MA		K3: 100 11MING: 5	-74 HOUIS
P	APER 2 : COS	TING	
wer 1:			
Process A Account			
Dr.			Cr.
	Rs.		Rs.
To Materials	40,000	By Process B A/c	1,20,000
		(Transfer to Process B)	
To Labour	40,000		
To Overheads	16,000		
	96,000		
To Profit (20% of transfer	24.000		
price, i.e., 25% of cost)	24,000		1 20 000
	1,20,000		1, <mark>20,000</mark>
Process B Account			
Dr.	De		Cr.
To Process A A/c	<b>Rs.</b> 1,20,000	By Finished Stock A/c	<b>Rs.</b>
(Transferred from Process A)	1,20,000	(Transfer to finished stock)	2,88,000
To Labour	56,000	(Transfer to Thisfied Stock)	/ 1
To Overheads	40,000		r 1
10 Overnedds	2,16,000		
To Profit (25% of transfer	2,10,000		
price, i.e., 33.33% of cost)	72,000		
p,,	2,88,000		2,88,000
State	ment of To	tal Profit	
			Rs.
Profit from Process A	AMER	CE CLACEEC	24,000
Profit from Process B	NMEK	CE CLASSES	72,000
Profit on Sales (Rs. 4,00,000 -	- Rs. 2,88,00	0)	1,12,000
Total Profit		LLRAS	2,08,000
			(5 Marks)

	Worker A (Rs.)	Worker B (Rs.)
Material cost	х	x
Labour wages	90 y	100 y
Bonus	Rowan system	Halsey sy <mark>stem</mark>
	Time saved × hour worked×rate	Hours saved × 50% × rate
	Time allowed	
Sall L	$\frac{30}{120}$ ×90×y = 22.5y	$20 \times \frac{1}{2} \times y \times = 10y$
Overheads	$90 \times \text{Rs.} 50 = 4,500$	$100 \times \text{Rs.} 50 = 5,000$
Factory cost	x + 112.5y + 4,500 = 80,200	x + 110y + 5,000 = 79,400
	∴ x + 112.5y = 75,700(1)	$\therefore x + 110y = 74,400 \dots (2)$
Solving (1) and	(2) we get $x = Rs 17 200$ and $y = Rs$	s 520

Solving (1) and (2) we get x = Rs.17,200 and y = Rs.520

(i) Normal rate of wages is Rs. 520 per hour. ]11/2

(ii) Cost of materials = Rs. 17,200.**]1**<sup>1</sup>/<sub>2</sub>

(iii) Comparative Statement of factory cost

## **INTERMEDIATE – MOCK TEST**

	Worker A (Rs.)	Worker B (Rs.)
Material cost	17,200	17,200
wages	46,800 (900 × Rs. 520)	52,000 (100 × Rs. 520)
Bonus	11,700 ( $\frac{30}{120} \times 90 \times 520$ )	$(20 \times \frac{1}{2} \times 520)$
Overheads	4,500 (90 × Rs. 50)	5,000 (100 × Rs. 50)
Factory cost	80,200 <b>[1M]</b>	79,400 <b>[1M]</b>

#### (i) Statement Showing "Activity Rate" (c)

(.) •••••••		,			
Activity	Activity Cost [a] (Rs.)	Activity Driver	No. of Units of Activity Driver [b]	Activity Rate [a] / [b] (Rs.)	
Providing ATM Service	1,00,000	No. of ATM Transactions	2,00,000	0.50	1 M
Computer Processing	10,00,000	No. of Computer Transactions	25,00,000	0.40	
Issuing Statements	8,00,000	No. of Statements	5,00,000	1.60	1 M
Customer Inquiries	3,60,000	Telephone Minutes	6,00,000	_ 0.60	
(11) (1) (1) (1)		C			

(ii) Statement Showing "Cost of Product"

(II) Statement She			
Activity	Checking Accounts	Personal Loans	Gold Visa (Rs.)
	(Rs.)		
Providing ATM	90,000		10,0 <mark>00</mark>
Service	(1,80 <mark>,00</mark> 0 tr.× Rs.		(20,000 tr. × R <mark>s.</mark>
	0.50)		0.5 <mark>0)</mark>
Computer	8,00,000	80,000	1,20,0 <mark>0</mark> 0
Processing	(20,00 <mark>,000</mark> tr. × Rs.	(2,00,000 tr.× Rs.	(3,00,000 tr. × R <mark>s.</mark>
	0.40)	0.40)	0.4 <mark>0)</mark>
Issuing	4,80,000	80,000	2,40,0 <mark>00</mark>
Statements	(3,00,000 st. × Rs.	(50,000 st.× Rs.	(1,50,000 st <mark>. ×</mark>
ΜΙΤΤΔΙ	1.60)	1.60)	Rs. 1. <mark>60)</mark>
Customer	2,10,000	54,000	96,000
Inquiries	(3,50,000 min. × Rs.	(90,000 min.× Rs.	(1,60,000 m <mark>in. ×</mark>
	0.60)	0.60)	Rs. <mark>0.60)</mark>
Total Cost [a]	Rs. 15,80,000	Rs. 2,14,000	Rs. 4, <mark>66,000</mark>
Units of Product	30,000	5,000	10,000
[b]			
Cost of each	52.67	42.80	46.60
Product [a] / [b]	[1M]	[1M]	[1M]
			(5 Marks)

#### (d) Labour turnover rate

It comprises of computation of labour turnover by using following methods:

- (i) Separation Method:
  - = No. of workers let + No. of workers discharged × 100

Average number of workers

$$= \frac{(80+320)}{(7,600+8,400)\div 2} \times 100 = \frac{400}{8,000} \times 100 = 5\%$$

(ii)

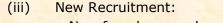
Replacement Method: =  $\frac{\text{No. of workers replaced}}{\text{Average number of workers}} \times 100 = \frac{300}{8,000} \times 100 = 3.75\%$ 

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(5 Marks)

1 M

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- = No. of workers newly recruited  $\times 100$ Averagenumber of workers
- No. Recruitments No. of Replacements × 100 Averagenumber of workers

$$= \frac{1,200-300}{8,000} \times 100 = \frac{900}{8,000} = 100 = 11.25\%$$

Flux Method:

= No. of separations + No. of accessions  $\times$  100 Averagenumber of workers

$$= \frac{(400 + 1200)}{(7600 + 8400) \div 2} \times 100 = \frac{1,600}{8,000} \times 100 = 20\%$$

(5 Marks)

1 M

2 M

1 M

Μ

1 M

1 M

#### Answer 2:

(a) WorkingNotes:

(1)

#### ComputationofAnnualconsumption&AnnualDemandforrawmate rial'Dee':

Salesforecastoftheproduct'Exe'	10,000units
Less:Opening stockof 'Exe'	900units
Freshunitsof Exe'tobeproduced	9,100units
Rawmaterialrequiredtoproduce9,100unitsof 'Exe' (9,100units×2kg.)	18,200kg.
Less:OpeningStockof Dee'	<mark>1,0</mark> 00kg.
Annualdemandforrawmaterial`Dee'	17,200kg.
ComputationofEconomicOrder Quantity(EOQ)	LASSES

$$EOQ = \sqrt{\frac{2 \times \text{Annual demand of 'Dee' \times Ordering Cost}}{\text{Carrying costper unit per annum}}}$$
$$= \sqrt{\frac{2 \times 17,200 \text{ kg.} \times \text{Rs.} 720}{\text{Rs.} 125 \times 13.76\%}} = \sqrt{\frac{2 \times 17,200 \text{ kg.} \times \text{Rs.} 720}{\text{Rs.} 17.2}} = 1,200 \text{ Kg.}$$

#### (3) **Re-Orderlevel:**

=(Maximumconsumptionperday×Maximumleadtime)

Annual Consumption of 'Dee' + 20kg. × 8 days 364 day (19 200 L

$$= \left\{ \left( \frac{18,200 \text{ kg.}}{364 \text{ days}} + 20 \text{ kg.} \right) \times 8 \text{ days} \right\} = 560 \text{ Kg.}$$

(4) Minimum consumption per day of raw material 'Dee': = 50 KgAverage Consumption per day Hence, Maximum Consumption per day = 50 Kg + 20 Kg = 70 KgSo, Minimum consumption perday will be Average Consumption = Min. consumption + Max. consumption 2 = Min. consumption + 70kg.

2

50 kg. Or,

(b)

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				0 kg – 70 kg. = 30 kg.				
	(i)		Re-order Quantity: EOQ - 200 kg. = 1,200 kg 200 kg. = 1,000 kg.					
	(ii)	Max = R	Maximum stock level: = Re-order level + Re-order Quantity - (Min. consumption per day × Min. lead time)					
		= 5	$= 560 \text{ kg.} + 1,000 \text{ kg.} - (30 \text{ kg.} \times 4 \text{ days}) = 1,560 \text{ kg.} - 120 \text{ kg.}$ = 1,440 kg.					
	(iii)	= R time	Minimum stock level: = Re-order level - (Average consumption per day × Average lead <sup>1</sup> time)					
		= 5	60 kg (50 kg. ×	< 6 days) = 260 kg.				
	(iv)	Imp EOC	•	bility of the company by	not ordering the	3 M		
				When purchasing the ROQ	When purchasing the EOQ			
	Since	$\mathbf{I} = 0$	Order quantity	1,000 kg.	1,200 kg.			
		II	No. of orders a year	$\frac{17,200 \text{ kg.}}{1,000 \text{ kg.}} = 17.2 \text{ or} 18$	$\frac{17,200 \text{ kg}}{1,200 \text{ kg}} = 14.33$			
				order	or15 orders	-		
		III	Ordering Cost	18 orders×Rs. 720= Rs. 12,960	15 orders × Rs. 720 = Rs. 10,800			
		IV	Average Inventory	$\frac{1,000 \text{kg}}{2} = 500 \text{kg}.$	$\frac{1,000 \text{kg}}{2}$ = 600 kg.			
		V	Carrying Cost	500kg ×Rs. 17.2 = Rs. 8,600	600kg ×Rs. 17.2 = Rs. 10,320			
	1.1.1.1	VI	Total Cost	Rs. 21,560	Rs. 21,120	1.50		
	I I M	Extr	aCostincurredduet	onotorderingEOQ=Rs.21,56	50			
		Rs.2	1,120=Rs.440	C				
			POOR TO	Oucass	(10 Mar <mark>ks)</mark>			
	Sales Volume							
ſ		or ex	isting contribution		Total (Do in Labba)			
	Particulars			Per Unit (Rs.)	Total (Rs. in Lakhs)			

Per Unit (Rs.)	Total (Rs. in Lakhs)
3,400	1,700
1,700	850
300	150
2,000	1,000
1,400	700
	3,400 1,700 300 2,000

(i) Break even sales in units =  $\frac{\text{Fixed Cost}}{\text{Contribution per unit}} = \frac{8,50,00,000}{2,000} = 42,500 \text{ units}$ 

Break even sales in rupees = 42,500 units x Rs. 3,400 = Rs. 1,445 lakhs

$$P/V \text{ Ratio} = \frac{2,000}{3,400} \times 100 = 58.82\%$$

1 M

**INTERMEDIATE – MOCK TEST** 

B.E.P (in rupees) = $\frac{\text{Fixed Cost}}{P / V \text{ Ratio}} = \frac{8,50,00,000}{58.82\%} = \text{Rs. 1,445 lakhs (approx. 1)}$	)
<ul> <li>(ii) <u>Number of units sold to achieve a target profit of Rs. 350 lakhs:</u> Desired Contribution = Fixed Cost + Target Profit = 850 lakhs + 350 lakhs = 1,200 lakhs</li> </ul>	2 M
Number of units to be sold = $\frac{\text{Desired Contribution}}{\text{Contribution per unit}} = \frac{12,00,00,000}{2,000}$ = 60,000 units	
<ul> <li>(iii) Profit if selling price is increased by 15% and sales volume drops by 10% Existing Selling Price per unit = Rs. 3,400</li> <li>Revised selling price per unit = Rs. 3,400 × 115% = Rs. 3,910</li> <li>Existing Sales Volume = 50,000 units</li> <li>Revised sales volume = 50,000 units - 10% of 50,000 = 45,000 units.</li> </ul>	
Statement of profit at sales volume of 45,000 units @ Rs. 3,910 per unitParticularsPer Unit (Rs.)Total (Rs. in LakSales3,910.001,759Less: Variable Costs(1,400.00)(630.Contribution2,510.001,129Less: Fixed Cost(850.Profit279	.50 00) .50 00)
<ul> <li>(iv) Volume to be achieved to earn target profit of Rs. 350 lakhs with reselling price and reduction of 8% in variable costs and Rs. 85 lakhs in cost.</li> <li>Revised selling price per unit = Rs. 3,910</li> <li>Variable costs per unit existing = Rs. 1,400</li> <li>Revised Variable Costs</li> <li>Reduction of 8% in variable costs = Rs. 1,400 - 8% of 1,400</li> <li>= Rs. 1,400 - Rs. 112</li> </ul>	
<ul> <li>Revised Contribution per unit = Rs. 3,910 - Rs. 1,288 = Rs. 2,622</li> </ul>	able
$\begin{array}{l} \text{Revised Contribution per unit = Rs. 3,910 - Rs. 1,268 = Rs. 2,622} \\ \text{Desired Contribution = Revised Fixed Cost + Target Profit} \\ = Rs. 765 \text{ lakhs + Rs.350 lakhs = Rs.1,115 lakhs} \\ \text{No. of units to be sold = } \frac{\text{Desired Contribution}}{\text{Contribution per unit}} = \frac{1,115 \text{ lakh}}{\text{Rs.2,622}} = 42,525 \text{ unit} \end{array}$	:S
(10 Ma	arks)

## Answer 3:

(a) **Expense Budget of R Ltd. for the period.....** 

Per unit	60,000 units	72,000 units
(Rs.)	Amount (Rs.)	Amount (Rs.)

## MITTAL COMMERCE CLASSES INTERMEDIATE – MOCK TEST

MITTAL COMMERCE CLASSES	TIN	TERMEDIATE	- MOCK TEST	-		
	200.00	1 20 00 000	1 44 00 000	1		
Sales (A)	200.00	1,20,00,000	1,44,00,000			
Less: Variable Costs:	02 50	10 50 000	F0 40 000			
- Direct Material	82.50	49,50,000	59,40,000			
- Direct Wages	27.50	16,50,000	19,80,000			
- Variable Overheads	27.50	16,50,000	19,80,000			
- Direct Expenses	16.50	9,90,000	11,88,000			
- Variable factory expenses	16.50	9,90,000	11,88,000			
(75% of Rs.20p.u.)						
- Variable Selling & Dist. exp.	8.80	5,28,000	6,33,600			
(80% of Rs. 10 p.u.)						
Total Variable Cost (B)	179.30	1,07,58,000	1,29,09,600			
	{2M}	{2M}	{2M}			
Contribution (C) = $(A - B)$	20.70	12,42,000	14,90,400			
Less: Fixed Costs:						
- Office and Admin. exp. (100%)		3,45,000	3,45,000			
- Fixed factory exp. (25%)		3,45,000	3,45,000			
- Fixed Selling & Dist. exp. (20%)		1,38,000	1,38,000			
Total Fixed Costs (D)		8,28,000	8,28,000			
(C - D)		4,14,000	6,62, <mark>400</mark>			
		{2M}	{2M}			
Since 1998		ر <u>۲</u> ۳۲	(10 Marks)	]		
(h) CD Standard Jahour Data par Hour						
(b) SR - Standard labour Rate per Hour						
	AR - Actual labour rate per hour					
SH - Standard hours						
AH - Actual Hours						
(i) Labour rate Variance =						
= 17094 (8 - AR) = 68,376(A) = -68,476						
			- 00,470	2 M		
	8 - AR = -4					
	AR = Rs. 12		_			
	ED CE	AL 1000				
(ii) Labour Efficiency = $\frac{SH}{AH}$ ×	100 = 105.3	CLASSE	:5			
D007 SH-0-	$\frac{AH \times 105.3}{=}$	AH×105.3		2 M		
2001-10	100	100				
= 17,999	.982					
= SH = 1	.8,000 hours					
			_			
(iii) Labour Efficiency Variance =	SR (SH - AH	H)				
=	8(18,000 - 1	17,094)		2 M		
	8 × 906	, ,				
		N				
-	Rs. 7,248(F)	)	-			
(iv) Chandard shave Cost non-write	18,00	00 0- 24		2 M		
(iv) StandardLabour Cost per unit	$= \frac{1}{6.00}$	$\frac{00}{0}$ = Rs. 24				
	-,					
(v) Actual Labour Cost per unit =	17,094 _ р	s 34 10		2 M		
(v) Actual Labour Cost per unit =	6,000 - K	5. 57.13	DOFIN			
			(10 Marks)			
Answer4:			(=== 11411.0)			
AREWARA						

(a) Stores Ledger Control A/c

Particulars	Rs.	Particulars	(Rs.)	
To Balance b/d	1,08,000	By Work in Process A/c	5,76,000	
				3

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To General Ledger	5,76,000	By Overhead Cor	ntrol	72,000	
Adjustment A/c		A/c			1
To Work in Process A/c	2,88,000	By Overhead Cor	ntrol	21,600*	
	3114113	A/c (Deficiency)		2 02 400	
	0.70.000	By Balance c/d		3,02,400	-
	9,72,000		-	9,72,000	]
Deficiency assumed as norr		cess Control A/c	s abnorn	nal loss)	
Particulars	Rs.	Particulars		(Rs.)	
To Balance b/d	2,16,000	By Stores Ledger Co	ontrol	2,88,000	1
TOL		a/c		1 4 40 000	10
To Stores Ledger	5,76,000	By Costing P/L A/c		14,40,000	
Control A/c		(Balancing figures b			
To Wages Control A/c	2,16,000	Cost of finished goo By Balance c/d	us)	1,44,000	3 N
To Overheads Control	8,64,000	by balance c/u		1,44,000	
A/c	0,04,000				
	18,72,000			18,72,000	1.00
		s Control A/c	190	10,72,000	J
Particulars	Rs.	Particulars		(Rs.)	1
To Stores Ledger Control	72,000	By Work in Process	A/c	8,64,000	
A/c			-//		
To Stores Ledger Control	21,600	By Balance c/d (Un	der	1,65,600	
A/c		absorption)			
To Wages Control A/c	<mark>- 36</mark> ,000				3 N
(Rs.2,52,000-					
Rs.2,16,000)	0.00.000				100
To Gen. Ledger Adjust. A/c	9 <mark>,00</mark> ,000				
Ayc	10,29,600			10,29,600	
		ofit & Loss A/c		10,25,000	
Particulars	Rs.	Particulars	ter Mar Bar	(Rs.)	
To Work in process	14,40,000	By Gen. ledger	16.5	6,000	
To Gen. Ledger Adjust.	2,16,000	Adjust. A/c	10,5		
A/c (Profit)	2,20,000	(Sales)			
, - ( ,		(Rs.14,40,000 ×			1 N
		115%)			1 1 1
	16,56,000	,	16,5	6,000	
(10 Marks)					
Working Notes:					
Input output ratio of materi	ial processed i	in Department $X = 1$	00:90		
Particulars					

input output rutio of material processed in Depart				
Particulars	Quantity (Kg)			
Material input	9,00,000			
Less: Loss of material in process @ 10% of	(90,000)			
9,00,000 kgs				
Output	8,10,000			
Output of department X is product $P_1$ and $P_2$ in the ratio of 60 : 40				

Output of department X is product  $P_1'$  and  $P_2'$  in the ratio of 60 : 40.

Output 'P<sub>1</sub>' =  $\frac{60 \times 8,10,000}{100}$  = 4,86,000kgs.

(b)

Output 'P<sub>2</sub>' =  $\frac{40 \times 8,10,000}{100}$  = 3,24,000kgs.

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Statement showing ratio of net sales

				_	
Product	<b>P</b> <sub>1</sub>	P <sub>2</sub>	Tota	1	
Quantity (kgs)	4,86,000	3,24,000	8,10,000	)	
Selling price per kg (Rs.)	110.00	325.00			
Sales Value (Rs. in lakhs)	534.60	1,053.00	1587.60		2 M
Less: Selling Expenses (Rs. in	(28.38)	(25.00)	(53.38	)	2 111
lakhs)					
Net Sales (` in lakhs)	506.22	1,028.00	1,534.00		
Ratio	33%	67%	100.00	)	
Computation of Joint Costs				_	
Particulars		Amount (	Rs. Lakhs)		
Ram Material Input 9,00,000 kgs	@ Rs. 95 per		85 <mark>5.00</mark>	-	
kg					
Direct Material			95.00		
Direct Wages			80.00		2 M
Variable Overheads			100.00		
Fixed Overheads			75.00		
Output			1,205.00		
(i) Statement showing apportionme	ent of joint cost				
Particulars		Amount (	Rs. Lakhs)	_	
Joint cost of $P_1$ – 33% of Rs. 1,20		( · · · ·	397.65		1½ M
Joint cost of $P_2 - 67\%$ of Rs. 1,20	5 lakhs		807.35		
Total			1,205.00	_	
(ii) Statement showing profitability	at split off poin	it 📃			
Product		<b>P</b> <sub>1</sub>	P <sub>2</sub>	Total	
Net Sales Value (Rs. in lakhs) – [A				1534.22	
Less: Joint costs (Rs. in lakhs)	(397.0	· ·		205.00)	
Profit (Rs. in lakhs) [A] – [B]		20.65	329.22		
Alternative Presentation					1½ M
Product		P <sub>1</sub>	P <sub>2</sub>	Total	1/2 111
Sales Value (Rs. in lakhs) – [A]				1587.60	
Less: Joint cots (Rs. in Lakhs)		and the second sec		1205.00	
Selling Expenses			25.00	53.38	
Total Cost [B]				1258.38	
Profit (Rs. in lakhs) [A]-[B]		3.57 2	20.65	329.22	
(iii) Statement of profitability of pro	oduct 'YP <sub>1</sub> '				
Product				YP <sub>2</sub>	
Sales Value (Rs. in lakhs) (Refer v	vorking note) [A			629.55	
Less: Cost of P <sub>1</sub>			397.65		
Cost of Department Y			128.00		1½ M
	Selling Expenses of Product `YP <sub>1</sub> '		19.00	EAA CE	
Total Costs [B]				544.65	
Profit (Rs. in lakhs) [A] – [B]				84.90	
Working Note:					
Computation of product 'YP <sub>1</sub> '					1.00
Quantity of product P1 input used =					
Input output ratio of material processed in Department Y = 100 : 95					
Particulars			Quantity (Kg)		
Material input			4	,86,000	
Less: Loss of material in process @ 5% of 4,86,000			(	24.300)	
				Q   D o g d	_

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	Total 4,61,700			
	Sales Value of $YP_1 = 4,61,700$ kgs @ Rs. 150 per kg = Rs. 692.55 lakhs			
	(iv) Determination of profitability after further processing of product $P_1$ into product $YP_1$ :			
	Particulars (Rs. in Lakhs)			
	Profit of Product 'YP <sub>1</sub> '{refer (ii) above} 108.57			
	Profit of Product 'YP <sub>1</sub> '{refer (iii) above} 84.90	1½ M		
	Decrease in profit after further processing23.67			
	Based on the above profitability statement, further processing of product P <sub>1</sub> into YP <sub>1</sub>			
	should not be recommended. (10 Marks)			
Answ				
(a)	Work produced by the gang 1,800 standard labour hours, i.e.,			
	$\frac{1,800}{32+12+6}$ or 36 gang hours			
	Standard hours of Skilled Labour (36 × 12) 1,152 hours			
	Standard hours of Semi-skilled Labour (36 × 12) 432 hours			
	Standard hours of Un-skilled Labour $(36 \times 6)$ <u>216 hours</u>			
	51000 595 Total <u>1,800</u> hours			
	Actual hours of Skilled Labour $(40 \times 28)$ 1,120 hours			
	Actual hours of Semi-skilled Labour $(40 \times 18)$ 720 hours Actual hours of Un-skilled Labour $(40 \times 4)$ <u>160 hours</u>			
	Total Total $2,000$ hours			
	Skilled Labour $\frac{1,152}{1,800} \times 2,000$ 1,280 hours			
	1,000			
	Semi-skilled Labour $\frac{432}{1,800} \times 2,000$ 480 hours	2 M		
	$\frac{1}{1,800} \times 2,000 = 10013$			
	Unskilled Labour $\frac{216}{1,800} \times 2,000$ <u>240 hours</u>			
	Charles to the test state to the test of the test state to the tes			
	Standard Cost for Actual Output: Skilled Labour 1,152 hours @ Rs. 30 34,560			
	Skilled Labour 1,152 hours @ Rs. 30 34,560 Semi-skilled Labour 432 hours @ Rs. 20 8,640			
	Unskilled Labour216 hours @ Rs. 102,160			
	<u>1,800</u> hours <u>45,360</u>			
	Actual Cost:			
	Skilled Labour 1,120 hours @ Rs. 34 38,080			
	Semi-skilled Labour 720 hours @ Rs. 23 16,560			
	Unskilled Labour <u>160</u> hours @ Rs. 12 <u>1,920</u>			
	<u>1,800</u> hours <u>56,560</u>			
	(i) Total Labour Cost Variance			
	Standard Cost Actual Cost			
	Rs. 45,360 - Rs. 56,560 11,200 (A)	2 M		
	(ii) Labour Yield Variance:			
	(Standard hours for Actual Output - Revised Standard hours) × Standard Rate			
	Skilled (1,152 - 1,280) × Rs. 30 3,840 (A)			
		2 M		
	Un-skilled (216 - 240) × Rs. 10 <u>240 (A)</u>			

## **INTERMEDIATE – MOCK TEST**

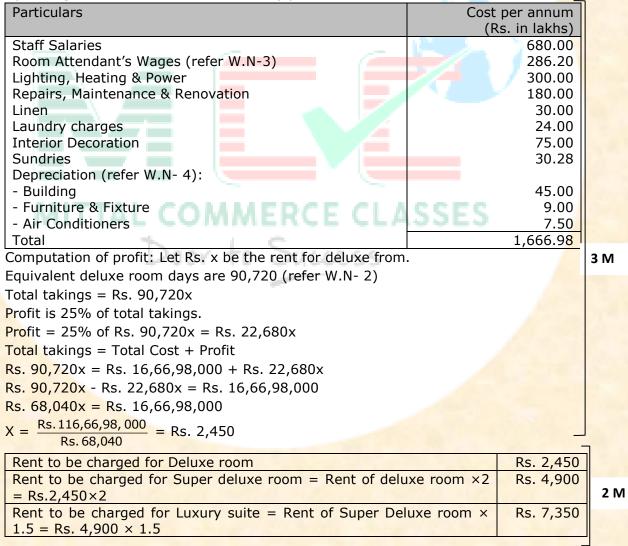
<u>5,040 (A)</u> 5,040 (A)

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(iii)	Labour Mix Variance:				
	(Revised Standard Hours - Actual Hours) × Standard Rate				
	Skilled	(1,280 - 1,120) × Rs. 30	4,800 (F)		
	Semi-skilled	(480 - 720) × Rs. 20	4,800 (A)		2 M
	Un-skilled	(240 - 160) × Rs. 10	<u>800 (F)</u>		
			<u>800 (F)</u>	800 (A)	
(iv)	) Labour Wage Rate Variance: (Standard Rate - Actual Rate) × Actual Hours				
	Skilled	(Rs. 30 - Rs. 34) × 1,120	4,480 (A)		
	Semi-skilled	(Rs. 20 - Rs. 23) × 720	2,160 (A)		2 M
	Un-skilled	(Rs. 10 - Rs. 12) × 160	<u>    320 (A)</u>		
			<u>6,960 (A)</u>	<u>9,690 (A)</u>	
	Check : Total	Labour Cost Variance = Yie	ld + Mix + Rate	<u>11,200 (A)</u>	
				(10 M <mark>arks)</mark>	

(b) Operating cost statement of 'RP' Resort (P) Limited



## **INTERMEDIATE – MOCK TEST**

Μ

1 M

2 M

2 M

#### Working Notes:

### 1. Computation of Room Occupancy

Type of Room	No. of rooms x no. of days x occupancy %	Room days	
Deluxe Room	100 rooms x 360 days x 90%	32,400	
	occupancy		1½
Super Deluxe Room	60 rooms x 360 days x 75% occupancy	16,200	
Luxury Suit	40 x 360 days x 90% occupancy	8,640	
	Total	84.90	

#### **2. Computation of equivalent deluxe room days:**

Rent of 'super deluxe' room is to be fixed at 2 times of 'deluxe room' and luxury suite' is 3 times of 'deluxe room'. Therefore equivalent room days would be:

Type of Room	Room days	Equivalent deluxe room days	1½ M
Deluxe Room	32,400 × 1	32,400	
Super Deluxe Room	16,200 × 2	32,400	
Luxury Suite	8,640 × 3	25,920	
-	Total	90,720	

**3. Computation of room attendant's wages:** Room occupancy days × Rs. 500 per day

= 57,240 days × Rs. 50<mark>0 = Rs. 286.2</mark>0 lakhs

## 4. Computation of Depreciation per annum:

	Particular	Cost (Rs.)	Rate of	Depreciation	
			Depreciation	(Rs.)	
	Building	900,00,000	5%	45,00,000	1 M
	Furniture & Fixtures	90,00,000	10%	16,200	
	Air Conditioners	75,00,000	10%	8,640	
AITTAL COMMEDCE CLACCEC (10 Marks)					
		11 M I C P C C	L LLAJJI		

## Answer 6:

- (a) Cost classification based on variability
  - (i) Fixed Costs These are the costs which are incurred for a period, and which, within certain output and turnover limits, tend to be unaffected by fluctuations in the levels of activity (output or turnover). They do not tend to increase or decrease with the changes in output. For example, rent, insurance of factory building etc., remain the same for different levels of production.
  - (ii) Variable Costs These costs tend to vary with the volume of activity. Any increase in the activity results in an increase in the variable cost and vice-versa. For example, cost of direct labour, etc.
  - (iii) Semi-variable Costs These costs contain both fixed and variable components and are thus partly affected by fluctuations in the level of activity. Examples of semi variable costs are telephone bills, gas and electricity etc.

(5 Marks)

## **INTERMEDIATE – MOCK TEST**

(b) Single and Multiple Overhead Rates: Single overhead rate: It is one single overhead absorption rate for the whole factory. It may be computed as follows: Overhead costs for the entire factory Single overhead rate = Total quantity of the base selected 2½ M The base can be total output, total labour hours, total machine hours, etc. The single overhead rate may be applied in factories which produces only one major product on a continuous basis. It may also be used in factories where the work performed in each department is fairly uniform and standardized. Multiple overhead rate: It involves computation of separate rates for each production department, service department, cost center and each product for both fixed and variable overheads. It may be computed as follows: Multiple overhead rate = Overhead allocated/ appportioned to each department/ cost centre or product 2½ M Corresponding base Under multiple overheads rate, jobs or products are charged with varying amount of factory overheads depending on the type and number of departments through which they pass. However, the number of overheads rate which a firm may compute would depend upon two opposing factors viz. the degree of accuracy desired and the clerical cost involved. (5 Marks) (c) Four different methods of costing along with their applicability to concerned industry have been discussed as below: Job Costing: The objective under this method of costing is to ascertain the cost (i) 2 M of each job order. A job card is prepared for each job to accumulate costs. The cost of the job is determined by adding all costs against the job it has incurred. This method of costing is used in printing press, foundries and general engineering workshops, advertising etc. Batch Costing: This system of costing is used where small components/ parts (ii) of the same kind are required to be manufactured in large quantities. Here batch of similar products is treated as a job and cost of such a job is 1 M ascertained as discussed under (1), above. If in a cycle manufacturing unit, rims are produced in batches of 2,500 units each, then the cost will be determined in relation to a batch of 2,500 units. (iii) Contract Costing: If a job is very big and takes a long time for its completion, then method used for costing is known as Contract Costing. Here the cost of 1 M each contract is ascertained separately. It is suitable for firms engaged in the construction of bridges, roads, buildings etc. (iv)Operating Costing: The method of Costing used in service rendering undertakings is known as operating costing. This method of costing is used in 1 M undertakings like transport, supply of water, telephone services, hospitals, nursing homes etc. (5 Marks)

## **INTERMEDIATE – MOCK TEST**

(d) In batch costing the most important problem is the determination of 'Economic Batch Quantity'

The determination of economic batch quantity involves two types of costs viz, (i) set up cost and (ii) carrying cost. With the increase in the batch size, there is an increase in the carrying cost but the set-up cost per unit of the product is reduced; this situation is reversed when the batch size is reduced. Thus there is one particular batch size for which both set up and carrying costs are minimum. This size of a batch is known as economic or optimum batch quantity.

Economic batch quantity can be determined with the help of a table, graph or mathematical formula. The mathematical formula usually used for its determination is as follows:

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$$EBQ = \sqrt{\frac{2DC}{C}}$$

Where,

- D = Annual demand for the product
- S = Setting up cost per batch
- C = Carrying cost per unit of production per annum

(5 Marks)

