QUESTION NO. 1

Number of units that must be sold:

(a) If sales price is Rs. 325

Number of units = Rs. 112,000 + Rs. 49.20 = 2,276 units

(b) If sales price is Rs. 350

Number of units = Rs. 112,000 + Rs. 74.20 = 1,509 units

WORKING:

Calculation of	Cross	Drofit of	the Last	Voor
Calculation of	Gross	Pront of	tne Last	iear:

560,000

Rs.

Sales 2,000 units \times Rs. 280

448,000

Less: Cost of goods sold

Gross profit (Rs. 560,000 × 25/125)

112,000

Calculation of Unit Cost of Last Year:

Tota	l cost	per	unit	
------	--------	-----	------	--

(Rs. 448,000 + 2,000 units)

224 89 60

Materials cost per unit

(Rs. $224 \times 40\%$)

89.60

Labour cost per unit

 $(Rs. 224 \times 45\%)$

100.80

Factory overhead cost per unit

 $(Rs. 224 \times 15\%)$

33.60

Calculation of Unit Cost of Coming Year:

Materials cost per unit

(Rs. 8,960 + 25%)

112.00

Labour cost per unit

(Rs. 100,80 + 25%)

126.00

FOH cost per unit Total

(Rs. 33.60 + 12.5%)

 $\frac{37.80}{275.80}$

Calculation of Expected Gross Profit Per Unit:

GP per unit = Sales price per unit - Total cost per unit

(a) If sales price is Rs. 325 per unit

GP per unit = Rs. 325.00 - Rs. 275.80 = Rs. 49.20

(b) If sales price is Rs. 350 per unit

GP per unit = Rs. 350.00 - Rs. 275.80 = Rs. 74.20

QUESTION NO. 2

CALCULATION OF COST OF PRODUCTION:

	Piece Work	Halsey Plan	·
Material	40	40	Rowan Plan
Labour	67.5	56.25	40
FOH	101.25	84.37	90
Total	568.75	540.62	550

COST ACCOUNT ING (I digue University Paper 2018)		
SUPPORTING CALCULATIONS:		
- Iciliation V. Date Cost:		
The worker will get wages for 9 hour (i.e., the time alloworked. Therefore,	omed) imperation	*
Direct labour cost = Rs 750 - 01	owed) irrespective	of the time
= 1.50 x 9 hours		Rs. 67.50
Halsey Plan:		Tus. 07.00
Regular wages (6 hours \times Rs. 7.50)		25.00
Premium (3 hours \times Rs. 7.50) \times 50%		Rs. 45.00
Total wages		Pe 56.25
Rowan Plan:		Rs. 56.25
Regular wages (6 hours × Rs. 7.50)		
		Rs. 45.00
Premium (3 hours \div 9 hours) \times (6 hours \times Rs. 7.5) Total wages	0)	15.00
, 10tal wages		Rs. 60.00
QUESTION NO. 3		
June '		
Volume Variance:		Rs.
Applied FOH	•	64,000
Budgeted FOH,		64,000
		Zero
Budgeted Variance:		Rs.
Budgeted FOH		64,000
Actual FOH		70,000
Accual Foli	(Dr.)	6,000
July Volume Waring and		Rs.
Volume Variance:		48,000
Applied FOH		56,000
Budgeted FOH	(Dr.)	8,000
Budgeted Variance:		Rs
Budgeted FOH		56,000 56,000
Actual FOH	•	56,000
		Zer
CALCULATIONS OF VARIABLE RATE:	*	
High and Low Point Method:		

high and Low Point Method:

TOTAL DIRECTIONS	Budgeted Capacity	Budgeted FOH
High	8,000	64,000
	6,000	56,000
ZJO W	2,000	8,000

(Dr.)

3,000

Variable rate =
$$\frac{\text{Rs. }800}{2.000}$$
 = Rs. 4 per ton

Calculation of Fixed Cost:

Fixed cost = Budgeted F.O.H. - Variable F.O.H.

 $= 64,000 - (Rs. 4 \times 8,000) = Rs. 32,000$

Calculation of Applied Rate:

= Fixed F.O.H. rate + Variable F.O.H. rate

= Fixed cost Normal capacity + Variable F.O.H. rate

 $= \frac{Rs. 32,000}{8,000} + Rs. 4$

= Rs. 8

Over / Under Applied FOH:

Applied FOH (Rs. $8 \times 9,000 \text{ tonns}$)		72,000
Actual FOH		71,000
	(Cr.)	1,000
Volume Variance:		
Applied FOH		72,000
Budgeted FOH [Rs. $32,000 + (Rs. 4 \times 9,000 tonns)$]		68,000
	(Cr.)	4,000
Budgeted Variance:		
Budgeted FOH		, , , , , , , , , , , , , , , , , , ,
Actual FOH	•	68,000
		71,000

QUESTION NO. 4

Wajahat Industries Cost of Production Report For the month ended

QUANTITY SCHEDULE:

Particulars	Units	Units
Units from preceding department	20,000	Ontes
Units added by department	16,000	36,000
Units completed and transferred	32,000	36,000
Units still in process (100% material, 50% labour, 40% FOH)		
Units lost during process	3,000	
	1,000	36,000

Cost Charged to Production:	Total Cost Rs.	Units Cost Rs.
Cost received from preceding department	175,000	8.75
Cost Added in this Department:		
Direct material	166,250	4.75
Direct labour	117,250	3.50
Factory overhead	58,100	1.75
Total cost added		10
Adjustment in unit cost due to lost units		5
Total cost charged to production	516,600	15

Cost Accounted for as Follows:	Rs.	Rs.
Cost of units completed & transferred:		
(32,000 units × Rs. 15)		480,000
Cost of Units in Process:		
Previous: (3,000 units × Rs. 5)	15,000	
Current:		
Material = $(3,000 \text{ units} \times 100\% \times \text{Rs. } 4.75)$	14,250	
Labour = $(3,000 \text{ units} \times 50\% \times \text{Rs. } 3.50)$	5,250	
FOH = $(3,000 \text{ units} \times 40\% \times \text{Rs. } 1.75)$	2,100	36,600
Total		516,600

WORKING:

Equivalent Production:

Material = 32,000 + (100% of 3,000) = 35,000 units

Labour = 32,000 + (50% of 3,000) = 33,500 units

FOH = 32,000 + (40% of 3,000) = 33,200 units

Per Unit Cost:

Material = 166,250 / 35,000 units = Rs. 4.75 per unit

Labour = 117,250 / 33,500 units = Rs. 3.50 per unit

POH = 58,100 / 33,200 units = Rs. 1.75 per unit

Revised unit cost due to lost unit:

= Rs. 175,000 / 35,000 units = Rs. 5 per unit

QUESTION NO. 5

Spoiled goods	200		Spoiled goods	200	
W.I.P Material		54	FOH control	620	
W.I.P Labour		85	W.I.P Material		220
- W.I.P FOH		61	W.I.P Labour		350
			W.I.P. – FOH		250
Finished goods	20,425		Finished goods	19,680	
W.I.P Material		5,496	W.I.P Material		528
W.I.P Labour		8,715	W.I.P. – Labour		8,400
W.I.P FOH		6,214	W.I.P FOH		6,000
Per unit cost = Rs. 425			Per unit cost = Rs. 410		

QUESTION NO. 6

(a) Journal

Date	Particulars	L/F	Debit	Credit
*			Rs.	Rs.
	Materials		125,000	
	Voucher payable			125,000
	Work in process - Material		122,000	
	Work in process - Labour		80,000	
	Work in process – FOH		100,000	
	Materials			122,000
	Payroll			80,000
	FOH applied .			100,000
	Finished goods		307,000	
•	Work in process - Materials			118,000
	Work in process - Labour			85,000
•	Work in process - FOH			104,000
	Cost of goods sold		304,000	
	Finished goods			304,000

Materials

	Rs.		Rs.
Balance b/d	20,000	Work in process - Materials	122,000
Purchases		Balance c/d	23,000
	145,000		145,000
	145,000		14

005T ACCOUNTING (Punjab University Paper 2018)

Work in Process - Material

	Rs.	
Balance b/d		Rs.
Materials	30,000 Fishe 122,000 Balan	d goods 118,000
	152,000 Balan	34,000
	102,000	152,000

Work in Process - Labour

	Rs.		De
Balance b/d. Pay roll		Finished goods Balance c/d	Rs. 85,000 35,000
	120,000		120,000

Work in process - Factory Overhead

	Rs.		Rs.
Balance b/d	1	Finished goods	104,000
FOH applied	100,000	Balance c/d	46,000
	150,000		150,000

Finished Goods

•	Rs.		Rs.
Balance b/d	25,000	Cost of goods sold	304,000
WIP - Materials	118,000	Balance c/d	28,000
WIP - Labour	85,000		
WIP - FOH	104,000		
	332,000		332,000

(b)

Date	Particulars	LÆ	Debit Rs.	Credit Rs.
	Finished goods		1,000	1,000
	Cost of goods sold Sales return		1,200	
	Debtor			1,200

QUESTION NO. 7

Harris Manufacturing Co. Cost of Goods Manufactured and Sold Statement

Direct Materials:	Rs.	Rs.
Materials inventory		
Add: Purchases	12,000	
	120,000	U.T.
Materials available for use	132,000	
Cost of material used	15,000	
Add: Direct labour		117,0
Add: Factory overhead		42,0
		25,20
Total factory cost Add: Work in process inventory		184,2
		6,00
Cost of goods to be manufacturing Less: Work in process inventory		190,2
		4,0
Cost of goods manufactured Add: Finished goods inventory		186,2
Cost of goods to be sale		18,0
Less: Finished goods inventory		204,2
Cost of goods sold at normal		21,0
Less: Over applied FOH		183,20
Cost of goods sold at actual		2,6
Calculation of Over / Under Applied Factory Overhead		180,5
Superintendence	<u>l:</u>	
Heat and light	Rs. 5,500	
***************************************	Rs. 4,000	
Insurance (fire and other)	Rs. 500	
Indirect materials used	Rs. 2,000	
Depreciation of building	Rs. 1,500	
Depreciation of equipment	Rs. 1,500	
Factory taxes	Rs. 1,000	
Employer's provident fund contribution (94% factory)	Rs. 4,700	
Tool expenses	Rs. 1,300	
		Rs. 22,55
Miscellaneous FOH costs	Rs. 550	KS. 22,0
Miscellaneous FOH costs Applied factory overheads	Rs. 550	Rs. 25,20