

SUGGESTED SOLUTION

IPCC NOVEMBER 2018 EXAM

COSTING

Test Code -

BRANCH - (MUMBAI-4) (GD-1) (Date : 01.07.2018)

Head Office : Shraddha, 3rd Floor, Near Chinai College, Andheri (E), Mumbai – 69. Tel : (022) 26836666

Answer-1 :A

Process A .Period : February 20X1 Average Method Output : 10,000 units Statement of Equivalent Production

| Input | Output | | | Input Output Equivalent Production | | | | ction | |
|-------------|--------|------------------|--------|------------------------------------|-----|--------|--------|----------|--------|
| Doutionlong | TI | Dautiaulaus | TI | Material | | Labour | | Overhead | |
| Particulars | Units | rarticulars | Units | Units | % | Units | % | Units | % |
| Opening | | Units completed: | 14,000 | 14,000 | 100 | 14,000 | 100 | 14,000 | 100 |
| stock | 4,000 | Closing stock | 6,000 | 6,000 | 100 | 2,000 | 33.1/3 | 2,000 | 33.1/3 |
| New | | | | | | | | | |
| Units | | | | | | | | | |
| introduced | 16,000 | | | | | | | | |
| | 20,000 | | 20,000 | 20,000 | | 16,000 | | 16,000 | |

Statement of Cost for each Element

| Elements of Cost | Cost of opening WIP Rs. | Cost in Process Rs. | Total Cost Rs. | Equivalent Production Rs. | Cost per unit Re. |
|---------------------|----------------------------|------------------------|-------------------|------------------------------|----------------------|
| Material | 1,200 | 5,120 | 6,320 | 20,000 | 0.316 |
| Labour | 200 | 3,000 | 3,200 | 16,000 | 0.200 |
| Overhead | 200 | 3,000 | 3,200 | 16,000 | 0.200 |

Statement of Apportionment of Cost

| Items | Element | Equivalent Production | Cost per unit Rs. | Cost Rs. | Total Cost Rs. |
|---------------|----------|------------------------------|-------------------|----------|----------------|
| | | | | | |
| Units | Material | 14,000 | 0.316 | 4,424 | |
| completed | Labour | 14,000 | 0.200 | 2,800 | |
| | Overhead | 14,000 | 0.200 | 2,800 | 10,024 |
| Closing Stock | Material | 6,000 | 0.316 | 1,896 | |
| | Labour | 2,000 | 0.200 | 400 | |
| | Overhead | 2,000 | 0.200 | 400 | 2,696 |

Dr.

Process A Account

Cr.

| Particulars | Units | Amount | Particulars | Units | Amount |
|-------------------------|--------|----------|------------------------------------|--------|-----------|
| To Opening Stock | 4,000 | Rs.1,600 | By units completed and transferred | 14,000 | Rs.10,024 |
| To New units introduced | 16,000 | | By Closing stock. | | |
| Material | | | | 6,000 | 2,696 |
| Labour | | 5,120 | | | |
| Overhead | | 3,000 | | | |
| | | 3,000 | | | |
| | 20,000 | 12,720 | | 20,000 | 12,720 |

Answer-1 :B

As per Financial Books Profit and Loss Account

(for the year ended 31st March, 1995)

| To Direct Material | Rs.5,00,000 | By Sales (50,000 units) | Rs. 10,00,000 |
|----------------------------------|-------------|-------------------------|---------------|
| " Direct Wages | 2,50,000 | " Interest and dividend | 15,000 |
| "Factory Expenses (actual) | 1,50,000 | | |
| " Admn. Expenses | 45,000 | | |
| "Selling & Distribution Expenses | 30,000 | | |
| " Profit | 40,000 | | |
| | 10,15,000 | | 10,15,000 |

As per above account, profit is Rs. 40,000 for the year ended 31st March, 1995.

| (b) | Cost Sheet | | |
|---|-----------------------------------|---------------|--------------------------------|
| | (for the year ended 31st March | n, 1995) | |
| Normal production capacity Sales/Production (units) | (units) | | 60,000 <u>50,000</u> |
| Direct materials Direct wages | | | Rs.5,00,000 <u>2,50,000</u> |
| Prime cost | | | 7,50,000 |
| Factory overhead - Variable | | Rs.60,000 | |
| - Fixed Rs. 90,000 x 5/6 | | 75,000 | <u>1,35,000</u> |
| Works cost | | | 8,85,000 |
| Administrative expenses Rs. Total cost of production | 45,000 x 5/6 | | <u>37,500</u> 9,22,500 |
| Selling and distribution expe | nses | | |
| -Variable | | Rs. 18,000 | |
| - Fixed Rs. 12,000 X 5/6 | | 10,000 | 28,000 |
| Cost of Sales | | | 9,50,500 |
| Profit (balance) | | | <u>49,500</u> |
| Sales | | | 10,00,000 |
| | (c)Reconciliation Stateme | nt | |
| Profit as per Cost Accounts | | Rs. 49,500 | |
| Add: Income from dividend | (not considered in Cost Accounts) | <u>15,000</u> | 64,500 |
| Less: Expenses undercharged | l in Cost Accounts: | | |
| (i) Factory expenses (1,50,00 | 00 - 1,35,000) | 15,000 | |
| (ii) Adm. expenses (45,000 - | 37,500) | 7,500 | |
| (iii) Selling & Distribution (3 | 80,000 - 28,000) | <u>2,000</u> | <u>24,500</u> |
| Profit as per financial accourt | its | | 40,000 |
| | | | |

Answer-2 :A

Joint Products No. of units S.P. per unit Sales Value

| А | 500 | Rs. 18 | Rs. 9,000 | |
|----------|------------------|--------|-----------|--|
| В | 900 | 8 | 7,200 | |
| С | 400 | 4 | 1,600 | |
| D | 200 | 11 | 2,200 | |
| Тс | otal Sales value | 20,000 | | |
| Less : B | udgeted profit | 2,000 | | |
| Тс | otal Joint Costs | 18,000 | | |

(a) Maximum price to be paid for R.M.

| Total Joint Costs | | Rs.18,000 |
|----------------------------------|--------------|---------------|
| Less :Other costs | | |
| Carriage inwards | Rs.1,000 | |
| Direct wages | 3,000 | |
| Manufacturing overhead | 2,000 | |
| Administration overhead | <u>2,000</u> | <u>8,000</u> |
| Maximum price to be paid to R.M. | | <u>10,000</u> |

(b) (i) Comprehensive Cost Statement (based on number of units)

| | Α | В | С | D | Total |
|------------------------|-------|-------|-------|-------|--------|
| Number of units | 500 | 900 | 400 | 200 | 2,000 |
| R.M. @Rs. 5 | 2,500 | 4,500 | 2,000 | 1,000 | 10,000 |
| Carriage @ Re. 0.5 | 250 | 450 | 200 | 100 | 1,000 |
| Direct wages @ Rs. 1.5 | 750 | 1,350 | 600 | 300 | 3,000 |
| Mfg. Ohd. @ Re. 1 | 500 | 900 | 400 | 200 | 2,000 |
| Admn. Ohd. @ Re. 1 | 500 | 900 | 400 | 200 | 2,000 |
| Total cost | 4,500 | 8,100 | 3,600 | 1,800 | 18,000 |

(ii) Comprehensive Cost based on Sales Value(Rs.)

| | A | В | С | D | Total |
|----------------|-------|-------|-------|-------|--------|
| Sales value | 9,000 | 7,200 | 1,600 | 2,200 | 20,000 |
| Raw material | 4,500 | 3,600 | 800 | 1,100 | 10,000 |
| Carriage | 450 | 360 | 80 | no | 1,000 |
| Direct wages | 1,350 | 1,080 | 240 | 330 | 3,000 |
| Mfg. overhead | 900 | 720 | 160 | 220 | 2,000 |
| Admn. overhead | 900 | 720 | 160 | 220 | 2,000 |
| Total cost | 8,100 | 6,480 | 1,440 | 1,980 | 18,000 |

Answer-2 B Dr.

Cr.

| Store Control A/c. | | | | | |
|--------------------|----------|-------------------------|----------|--|--|
| | Rs. | | Rs. | | |
| To Balance b/d | 1,00,000 | By Work in progress A/c | 2,00,000 | | |
| To Creditors A/c | 1,60,000 | By Inventory Adj. A/c | 8,000 | | |
| | | By Balance c/d | 52,000 | | |
| | 2,60,000 | | 2,60,000 | | |
| To Balance b/d | 52,000 | | | | |

| Dr. | Work in Pi | Work in Progress A/c/ | | |
|----------------------------|------------|-----------------------|----------|--|
| | Rs. | | Rs. | |
| To stores Control A/c | 2,00,000 | By Finished Stock A/c | 3,82,000 | |
| To Wages Control A/c | 1,86,000 | By Balance c/d | 1,90,00 | |
| To Production Overhead A/c | 1,86,000 | | | |
| | 5,72,000 | | 5,72,000 | |
| To Balance b/d | 1,90,000 | | | |

| Dr. | Finished Goods A/c | | Cr. |
|-------------------------|--------------------|----------------------|----------|
| | Rs. | | Rs. |
| To Work in progress A/c | 3,82,000 | By Cost of Sales A/c | 3,82,000 |
| | 3,82,000 | | 3,82,000 |

| Dr. | Wages Control A/c | | Cr. |
|----------------|-------------------|----------------|----------|
| | Rs. | | Rs. |
| To Bank | 1,90,000 | By W.I.P.A/c. | 1,86,000 |
| | | By Balance c/d | 4,000 |
| | 1,90,000 | | 1,90,000 |
| To Balance b/d | 4,000 | | |

| Dr. | Production Overhead A/c. | | Cr. |
|----------------|--------------------------|-------------------------|----------|
| | Rs. | | Rs. |
| To Bank | 1,75,000 | By work in progress A/c | 1,86,000 |
| To Balance c/d | 11,000 | | |
| | 1,86,000 | | 1,86,000 |

| Dr. | Selling and Distribution Expenses A/c. | | Cr. |
|---------|--|----------------------|--------|
| | Rs. | | Rs. |
| To Bank | 20,000 | By Cost of Sales A/c | 20,000 |
| | 20,000 | | 20,000 |

| Dr. | Cost of Sales A/c. | | Cr. |
|---------------------------|--------------------|----------------|----------|
| | Rs. | | Rs. |
| To Finished Stock A/c. | 3,82,000 | By Balance c/d | 4,02,000 |
| To Selling & Distribution | | | |
| Overhead A/c | | | |
| To Balance b/d | 20,000 | | |

| | 4,02,000 | | 4,02,000 |
|----------------|----------|----------------|----------|
| Dr. | Sales | 5 A/c. | Cr. |
| | Rs. | | Rs. |
| To Balance c/d | 5,72,000 | By Debtors A/c | 5,72,000 |
| | 5,72,000 | | 5,72,000 |
| | | By Balance b/d | 5,72,000 |

| Dr. | Share Capital A/c. | | Cr. |
|-----|--------------------|----------------|----------|
| | Rs. | | Rs. |
| | | By Balance b/d | 2,00,000 |
| | | | 2,00,000 |

| Dr. | Reserve A/c. | | Cr. |
|-----|--------------|----------------|--------|
| | Rs. | | Rs. |
| | | By Balance b/d | 50,000 |
| | | | 50,000 |

| Dr. | Plant and Machinery A/c. | |
|----------------|--------------------------|-----|
| | Rs. | Rs. |
| To Balance b/d | 2,50,000 | |
| | 2,50,000 | |

| Dr. | Sundry Debtors A/c. | | Cr. |
|----------------|---------------------|----------------|----------|
| | Rs. | | Rs. |
| To Balance b/d | 40,000 | By Bank A/c | 6,00,000 |
| To Sales | 5,72,000 | By Balance c/d | 12,000 |
| | 6,12,000 | | 6,12,000 |

| Dr. | Sundry Creditors A/c. | | Cr. |
|----------------|-----------------------|-----------------------|----------|
| | Rs. | | Rs. |
| To Bank | 1,70,000 | By Balance b/d | 60,000 |
| To Balance c/d | 50,000 | By Stores Control A/c | 1,60,000 |
| | 2,20,000 | | 2,20,000 |
| | | By Balance b/d | 50,000 |

| Dr. Bank Account | | | Cr. |
|------------------------|----------|---------------------------|----------|
| | Rs. | | Rs. |
| To Sundry Debtor's A/c | 6,00,000 | By Balance b/d | 80,000 |
| To Balance c/d | 35,000 | By Wages Control A/c | 1,90,000 |
| | | By Production Control A/c | 1,75,000 |
| | | By Selling & Dist.Exp. | |
| | | Control A/c | 20,000 |
| | | By Sundry Creditor's A/c | 1,70,000 |
| | 6,35,000 | | 6,35,000 |

| | | By Balance b/d | 35,000 |
|-----------------------------|-------------|----------------|--------|
| Dr. I | nventory Ad | ljustment A/c | Cr. |
| | Rs. | | Rs. |
| To Store Ledger Control A/c | 8,000 | By Balance c/d | 8,000 |
| | 8,000 | | 8,000 |
| To Balance b/d | 8,000 | | |

| Dr. Trial Balance as on 31 st December, 2002 | | Cr. |
|---|----------|----------|
| | Dr. Rs. | Cr. Rs. |
| 1. Share Capital | | 2,00,000 |
| 2. Reserve Account | | 50,000 |
| 3. Sundry Debtors | 12,000 | - |
| 4. Sundry Creditors | | 50,000 |
| 5. Plant and Machinery Account | 2,50,000 | - |
| 6. Bank Account | | 35,000 |
| 7. Stores Ledger Control Account | 52,000 | - |
| 8. Work in progress Account | 1,90,000 | |
| 9. Wages Control Account | 4,000 | |
| 10. Production Overhead Account | | 11,000 |
| 11. Inventory Adjustment Account | 8,000 | |
| 12. Cost of Sales Account | 4,02,000 | |
| 13. Sales Account | | 5,72,000 |
| | 9,18,000 | 9,18,000 |

| Dr. Profit and Loss Account for the year ended 31.12.2002 | | | | |
|---|----------|----------------------------|----------|--|
| | Rs. | | Rs. | |
| To Cost of Sales A/c | 4,02,000 | By Sales A/c | 5,72,000 | |
| To Inventory Adjustment A/c | 8,000 | By Production Overhead A/c | 11,000 | |
| To Wages Control A/c | 4,000 | | | |
| To Net Profit | 1,69,000 | | | |
| | 5,83,000 | | 5,83,000 | |

| Dr. | Balance Sheet as at 31 st December, 2002 | | | | | |
|------------------|---|----------|---------------------|-----------------|----------|--|
| Liabilities | | Rs. | Assets | | Rs. | |
| Share Capital | 2,00,000 | | Plant and Machinery | | 2,50,000 | |
| Reserve | 50,000 | | Stock of : | | | |
| Profit | 1,69,000 | 4,19,000 | Finished goods | 52,000 | | |
| Sundry Creditors | | 50,000 | W.I.P. | <u>1,90,000</u> | 2,42,000 | |
| Bank Overdraft | | 35,000 | Sundry Debtors | | 12,000 | |
| | | 5,04,000 | | | 5,04,000 | |

Answer-3 :A (1)

Standard labour rate per hour = $(15.30/9) \times 10 = \text{Rs.} 17$ per hour

L₁— Actual payment for actual hours

| L_2 — Actual hours worked at standa L_3 — Labour hours available at stan | | Rs. 2,29,500 | | | |
|---|--|--------------|-----------------|-----------|---------------|
| [13,500-10% of 13,500] xRs. | | | 2,06,550 | | |
| L_4 — Labour hours worked - 12,420 | | 2,11,140 | | | |
| L_5 — Labour cost for output 1,800 u | inits x 6 hrs x Rs | . 17 = | | | 1,83,600 |
| Labour Idle Time Variance - L_3 - L_4 | ₄ = Rs. 2,06,550 - | Rs. 2, | 11,140 = | | Rs. 4,590 (F) |
| Labour Efficiency Variance - L ₄ - L | ₅ - Rs. 2,11,140 · | - Rs. 1 | ,83,600 = | R | s. 27,540 (A) |
| Answer-3 :A 2 | | | | | |
| VO ₁ - Actual variable overhead inc | urred = | | | | Rs.28,000 |
| VO_2 - Actual hours worked at standard per hour (10,500 hours x Rs. 3) | dard variable ove $f = 0$ | rhead | | | Rs.31,500 |
| VO ₃ - Standard variable overhead f | or production | | | | |
| 5,000 units x 2 hours x Rs. 3 | | | | | 30,000 |
| Variable Overhead Efficiency Varia = Rs. 31,500 - Rs. 30,000 = Rs. 1,5 | ance = $VO_2 - VO_3$ 500 (A). | 3 | | | |
| Answer-3 :B 1 | | | | | |
| Total cost of 1,50,000 units (x Rs. 4 | = = | R | Rs. 62,25,000 | | |
| Total cost of 1,00,000 units (x Rs. 4 | (7.50) = | <u>4</u> | 7,50,000 | | |
| Variable Cost of 50,000 units | | <u>1</u> | 4,75,000 | | |
| Variable Cost per unit = Rs. 14,75,0 | 000 ÷ 50,000 uni | ts - Rs | . 29.50 | | |
| Substituting | | | | | |
| Total Cost of 1,00,000 units | | R | Rs. 47,50,000 | | |
| Variable Cost of 1,00,000 units (x H | Rs. 29.50) <u>29</u> , | 50,000 | <u>)</u> | | |
| Fixed cost | | <u>1</u> | <u>8,00,000</u> | | |
| Break-even Point = $\frac{\text{Rs.18,00,}}{(\text{Rs.49.50} - R)}$ | $\frac{000}{s.29.50} = 90,0$ | 00 uni | its | | |
| Answer-3 :B 2 | , | | | | |
| New Fixed Cost = Rs. 10.000×1.2 | 0 = Rs. 12.000 | | | | |
| Units required to break-even = I | Rs. 12.000 ÷ Con | tributi | on per unit | | |
| | Rs. $12,000 \div$ Rs. | 4 = 3, | 000 units | | |
| Budgeted units of sales $=5,000$ unit | t | , | | | |
| In percentage terms, margin of safe | $ty = \frac{2,000}{5,000} \times 10^{-10}$ | 00 = 4 | ·0% | | |
| | 5,000 | | | | |
| Answer- 4:A | | | | | |
| L ₁ —Actual payment to workers for | actual worked | | | | |
| Actual composition of gang | Hrs. work | ked | | Rate | Amount |
| 13 Men | Х | 40 | Х | Re. 0.600 | Rs. 312 |
| 4 Women | Х | 40 | Х | 0.425 | 68 |
| 3 Boys | Х | 40 | Х | 0.325 | <u>39</u> |
| | | | | | <u>419</u> |
| L ₂ —Payment involved, if workers had been paid at standard rate | | | | | |
| Actual composition of gang | Hrs. work | ked | | S. Rate | Amount |

| 13 Men | Х | 40 | Х | Re. 0.625 | Rs. 325 | |
|--|---|--|---------------------|-----------------------|----------------|------|
| 4 Women | Х | 40 | Х | 0.400 | 64 | |
| 3 Boys | Х | 40 | Х | 0.350 | <u>42</u> | |
| | | | | | <u>431</u> | |
| L ₃ —Payment invol | lved, if workers had been | n used according to prop | ortion o | of standard gan | g | |
| and payment had b | een made at standard rat | e | | | | |
| Standard compositi | ion of gang | Hrs. worked | | S. Rate | Amount | |
| 10 Men | Х | 40 | Х | Re. 0.625 | Rs. 250 | |
| 5 Women | Х | 40 | Х | 0.400 | 80 | |
| 5 Boys | Х | 40 | Х | 0.350 | <u>70</u> | |
| | | | | | <u>40C</u> | |
| L ₄ —Standard labor | ur cost of labour hours u | tilized— | | | | |
| Standard compositi | ion of gang | Hrs. worked | | S. Rate | Amount | |
| 10 Men | Х | 38 | Х | Re. 0.625 | Rs. 237.50 | |
| 5 Women | - X . | 38 | Х | 0.400 | 76.00 | |
| 5 Boys : | Х | 38 | Х | 0.350 | <u>66.50</u> | |
| | | | | | <u>380.00</u> | |
| L ₅ —Standard labor | ur cost of output achieve | ed. | | | | |
| Standard labour of | cost for standard outpu | t – x Actual output | | | | |
| Stand | dard output | A rietuur output | | | | |
| $=\frac{\text{Rs.400}}{1,000\text{units}} \ge 9$ | 60 units or Rs.384 | | | | | |
| Variance | | | | | | |
| 1. Labour Rate V | ariance = L_1 - L_2 =Rs. 419 | 9 - Rs. 431 or Rs. 12 (F) | | | | |
| 2. Labour Mix Va | ariance = L_2 - L_3 =Rs. 431 | - Rs. 400 or Rs. 31 (A) | | | | |
| 3. Labour Idle Ti | me Variance = $L_3 - L_4 = R$ | s. 400 - Rs. 380 or Rs. 2 | 0 (A) | | | |
| 4. Labour Yield T | Time Variance = L_4 - L_5 = | Rs. 380 - Rs. 384 or Rs. | 4 (F) | | | |
| 5. Labour Efficient | ncy Variance = L_2 - L_5 = | Rs. 431 - Rs. 384 or Rs. | 47 (A) | | | |
| Alternatively, Labo | our Efficiency Variance | | | | | |
| = Labour Mix Vari | ance + Labour Idle Vari | ance + Labour Yield var | riance | | | |
| = 31 (A) + 20 (A) - | + 4 (F) or Rs. 47 (A) | | | | | |
| 6. Labour Cost var | iance = $L_1 - L_5 = Rs. 419$ | - Rs. 384 or Rs. 35 (A) | | | | |
| Alternatively, Lab Variance + Labour | our Cost variance = La Yield Variance = 12 (F) | bour Rate Variance + $(A) + 31 (A) + 20 (A) + 4 (A)$ | Labour (F) or 3: | Mix Variance 5 (A) | + LabourIdle ' | Time |
| Answer-4-B | | | | | | |
| (i) Overhead | ls application base: I | Direct labour hours | | | | |
| | | Equipment Y (Rs.) | Equi | oment Z (Rs.) |) | |
| | Direct material cost | 300 | | 450 | - | |
| | Direct labour cost | 450 | | 600 | | |
| | Overheads* | 186.38 | | 248.50 | | |

| | | 936.38 | 1,298.50 | |
|---------------------|---|--|---|--------|
| *Pre-determined r | $ate = \frac{Budgeted}{Budgeted direc}$ | $\frac{\text{overheads}}{\text{ct labour hours}} = \frac{\text{Rs.12}}{20,00}$ | $\frac{1,42,500}{10 \text{ hours}} = Rs.62.125$ | |
| Answer-5 :A | | | | |
| Before process cost | accounts, process cost | sheet should be prepared | l. | |
| Process III | | Process Cost Sheet | t | Period |
| | | (FIFO Method) | | |
| O/S—1,600 units | | | | |
| Introduced—42,400 |) units St | tatement of Equivalent | Production | |

| Input | t | Output | Equivalent Production | | | | | | |
|------------------------|--------|---|-----------------------|-------------|----------|---------------|-----------|----------------------|-----------|
| Item Units | | s Items | | Material A | | Material B | | Labour & Overhead | |
| | | | | Units | % | Units | % | Units | % |
| Op/ stock | 1,600 | Normal loss | 2,000 | - | - | - | - | - | - |
| Process II transfer | 42,400 | Completed :(a) Work on Op. WIP(b) Introduced & completed | 1,600 36,800 | - 36,800 | - 100 | 320 36,800 | 20 100 | 640 36,800 | 40 100 |
| | | Cl. WIP | 4,000 | 4,000 | 100 | 2,800 | 70 | 2,000 | 50 |
| | | Less Abnormal gain | 400 | 400 | 100 | 400 | 100 | 400 | 100 |
| | 44,000 | | 44,000 | 40,400 | | 39,520 | | 39,040 | |

Statement of cost for each Element

| Elements of cost | | Cost Rs. | Equivalent Production Unit | Cost per unit Rs. |
|--------------------------------------|-------------|-------------|-------------------------------|----------------------|
| Material A: | | | | |
| Transfer from previous Process | | | | |
| Less value of normal scrap | Rs.3,29,200 | | | |
| | 6,000 | 3,23,200 | 40,400 | 8 |
| Material B :Added in the process III | | 1,58,080 | 39,520 | 4 |
| Labour | | 78,080 | 39,040 | 2 |
| Overhead | | 39,040 | 39,040 | 1 |
| Total Cost | | 5,98,400 | | |

Statement of Apportionment of Cost

| Items | Elements | Equivalent production Units | Cost per unit Rs. | Cost Rs. | Total Rs. |
|-------------------------------------|------------|-----------------------------------|-------------------------|-------------|--------------|
| Opening WIP (For completion) | Material A | - | 8 | - | - |
| | Material B | 320 | 4 | 1,280 | |
| | Wages | 640 | 2 | 1,280 | |
| | Overhead | 640 | 1 | 640 | 3,200 |
| Introduced and completed during the | Material A | 36,800 | 8 | 2,94,400 | |

| period | Material B | 36,800 | 4 | 1,47,200 | |
|---------------|--|--------|---|----------|----------|
| | Wages | 36,800 | 2 | 73,600 | |
| | Overhead | 36,800 | 1 | 36,800 | 5,52,000 |
| Closing WIP | Material A | 4,000 | 8 | 32,000 | |
| | Material B | 2,800 | 4 | 11,200 | |
| | Wages | 2,000 | 2 | 4,000 | |
| | Overhead | 2,000 | 1 | 2,000 | 49,200 |
| Abnormal Gain | Material A | 400 | 8 | 3,200 | |
| | Material B | 400 | 4 | 1,600 | |
| | Wages | 400 | 2 | 800 | |
| | Overhead | 400 | 1 | 400 | 6,000 |
| | Total Cost (Total cost less cost of abnormal gain) | | | | |

Process III

| Details | Units | Amount | Details | Units | Amount |
|---------------------|--------|------------|-------------------|--------|----------|
| To Balance b/d | 1,600 | Rs. 20,600 | By Normal Loss | 2,000 | Rs 6,000 |
| To Process II A/c | 42,400 | 3,29,200 | By Process IV A/c | 38,400 | 5,75,800 |
| By Direct Materials | | 1,58,080 | By C/Stock c/d | 4,000 | 49,200 |
| By Labour | | 78,080 | | | |
| By Overhead | | 39,040 | | | |
| By Abnormal Gain | 400 | 6,000 | | | |
| | 44,400 | 6,31,000 | | 44,400 | 6,31,000 |
| By balance b/d | 4,000 | 49,200 | | | |

Abnormal Gain Account

| | Units | Amount | | Units | Amount |
|----------------------------|-------|-----------|--------------------|-------|-----------|
| To process III Scrap | 400 | Rs, 1,200 | By Process III A/c | 400 | Rs, 6,000 |
| To Profit and loss account | | 4,800 | | | |
| | 400 | 6,000 | | 400 | 6,000 |

Notes :

(i) Production = Opening units + units introduced - closing units

= 1,600 + 42,400 - 4,000 = 40,000 units

(ii) Process IV accounts transfer. This comprises:

| (a) | Value of opening stock | Rs.20,600 |
|-----|---|-----------------|
| (b) | Charge for completing O/stock | 3,200 |
| (c) | Charge for units introduced and completed | <u>5,52,000</u> |
| | | <u>5,75,800</u> |

Answer-5 :B

| Dr. Raw | Dr. Raw Material Control Account | | | | | | |
|-------------------------------|----------------------------------|-------------------------------|--------|--|--|--|--|
| | Rs. | | Rs. | | | | |
| To Balance b/d | 48,836 | By WIP Control A/c | 17,000 | | | | |
| To Nominal Ledger Control A/c | 22,422 | By Nominal Ledger Control A/c | 1,000 | | | | |
| | | By Nominal Ledger Control A/c | 1,300 | | | | |
| | | By Balance c/d | 51,958 | | | | |

| | 71,258 | 71,258 |
|----------------|--------|--------|
| To Balance b/d | 51,958 | |

| Dr. Work in Progress Control A/c | | | | | | | |
|----------------------------------|--------|-------------------------------|--------|--|--|--|--|
| | Rs. | | Rs. | | | | |
| To Balance b/d | 14,745 | By Finished Stock Control A/c | 36,834 | | | | |
| To Nominal Ledger Control A/c | 11,786 | By Nominal Ledger Control A/c | 1,800 | | | | |
| To Raw Material Control A/c | 17,000 | By Balance c/d | 23,267 | | | | |
| To Nominal Ledger Control A/c | 18,370 | | | | | | |
| | 61,901 | | 61,901 | | | | |
| To Balance b/d | 23,267 | | | | | | |

| Dr. Finished Stock Account | | | | | |
|-------------------------------|---------|-------------------------------|--------|--|--|
| | Rs. | | Rs. | | |
| To Balance b/d | 21,980 | By Nominal Ledger Control A/c | 42,000 | | |
| To WIP Control A/c | 36,.834 | By Balance c/d | 19,814 | | |
| To Nominal Ledger Control A/c | 3,000 | | | | |
| | 61,814 | | 61,814 | | |
| To Balance b/d | 19,814 | | | | |

| Dr. Nom | Dr. Nominal Ledger Control Account | | | | | | | |
|-------------------------------|------------------------------------|-------------------------------|----------|--|--|--|--|--|
| | Rs. | | Rs. | | | | | |
| To Raw Material Control A/c | 1,000 | By Balance b/d | 85,561 | | | | | |
| To Raw Material Control A/c | 1,300 | By Raw Material Control A/c | 22,422 | | | | | |
| To Finished Stock Control A/c | 42,000 | By WIP Control A/c | 11,786 | | | | | |
| To WIP Control A/c | 1,800 | By WIP Control A/c | 18,370 | | | | | |
| To Balance c/d | 95,039 | By Finished Stock Control A/c | 3,000 | | | | | |
| | 1,41,139 | | 1,41,139 | | | | | |
| | | By Balance b/d | 95,039 | | | | | |

Answer-6-A

Stores Ledger of AT Ltd., for the month of September, 20X1 (FIFO Method)

| | RECEIPT | | | | | | ISSUE | | | BALANCE | |
|--------|--------------------------|---------------|-------------|---------------|-------------------------|---------------|-------------|---------------|---------------|--------------|---------------|
| Date | GNR No. MRR No. | Qty. Units | Rate Rs. | Amount Rs. | Requi- sition No. | Qty. Units | Rate Rs. | Amount Rs. | Qty. Units | Rate Rs. | Amount Rs. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1.9.x1 | - | - | - | - | - | - | - | - | 25 | 6.50 | 162.50 |
| 4.9.x1 | - | - | - | - | 85 | 8 | 6.50 | 52 | 17 | 6.50 | 110.50 |
| 6.9.x1 | 26 | 50 | 5.75 | 287.50 | - | - | - | - | 17 50 | 6.50 5.75 | 398.00 |
| 7.9.x1 | - | - | - | - | 97 | 12 | 6.50 | 78 | 5 50 | 6.50 5.75 | 320.00 |

| 10.9.x1 | - | - | - | - | Nil | 10 | 5.75 | 57.50 | 5 40 | 6.50 5.75 | 262.00 |
|---------|----|----|------|--------|----------|---------|--------------|-------|---------------|----------------------|--------|
| 12.9.X1 | - | - | - | - | 108 | 5 10 | 6.50 5.75 | 90 | 30 | 5.75 | 172.50 |
| 13.9.X1 | - | - | - | - | 110 | 20 | 5.75 | 115 | 10 | 5.75 | 57.50 |
| 15.9.X1 | 33 | 25 | 6.10 | 152.50 | - | - | - | - | 10 25 | 5.75 6.10 | 210.00 |
| 17.9.X1 | - | - | - | - | 121 | 10 | 5.75 | 57.50 | 25 | 6.10 | 152.50 |
| 19.9.X1 | 38 | 10 | 5.75 | 57.50 | - | - | - | - | 25 10 5 | 6.10 5.75 5.75 | 210.00 |
| 20.9.X1 | 4 | 5 | 5.75 | 28.75 | - | - | - | - | 25 10 | 6.10 7.75 | 258.75 |
| 26.9.X1 | - | - | - | - | 146 | 5 5 | 5.75 6.10 | 59.25 | 20 10 | 6.10 5.75 | 179.50 |
| 30.9.X1 | - | - | - | - | Shortage | 2 | 6.10 | 12.20 | 18 10 | 6.10 5.75 | 167.30 |

Question-6-B

(10 Marks)

In manufacturing the main product A, a company processes, the resulting waste material into two by-products M_1 and M_2 . Using the method of working back from sales value to an estimated cost, you are required to prepare a comparative profit and loss statement of the three products from the following data :

| T T | 1 1 | 1 | | U | | | | |
|-------|--|--------------|------------------|------------|--|--|--|--|
| (i) | Total cost up to separation point was Rs. 1,36,000 | | | | | | | |
| | | Α | \mathbf{M}_{1} | M_2 | | | | |
| (ii) | Sale (all production) | Rs. 3,28,000 | Rs. 32,000 | Rs. 48,000 | | | | |
| (iii) | Cost after separation | | 9,600 | 14,400 | | | | |
| (iv) | Estimated net profit as | | | | | | | |
| | percentage to sale value | | 20% | 30% | | | | |
| (v) | Estimated selling expenses as | | | | | | | |
| | percentage of sale value | 20% | 20% | 20% | | | | |

Answer-4 :

Statement showing the apportionment of joint costs at the point of separation

| Total cost up to point of separation | | | | Rs. 1,36,000 |
|--|--------------|------------|------------|---------------|
| Less : Cost of By-products by working backwa | ırd | M_1 | M_2 | |
| Sales realisation | | Rs. 32,000 | Rs. 48,000 | |
| Less : Net profit | M_1 | M_2 | | |
| (20% and 30% of Sales) | 6,400 | 14,400 | | |
| Selling expenses (20% of sale) | 6,400 | 9,600 | | |
| Cost after separation | <u>9,600</u> | 14,400 | | |
| | | 22,400 | 38,400 | |
| | | 9,600 | 9,600 | <u>19,200</u> |
| Cost to be apportioned after split-off point | | | | 1,16,800 |

Cost to be apportioned after split-off point

Comparative Profit and Loss Account

| Details | Α | M ₁ | M ₂ | Total |
|---------------------|----------|-----------------------|-----------------------|--------------|
| 1. Sales Rs. | 3,28,000 | Rs. 32,000 | Rs. 48,000 | Rs. 4,08,000 |
| 2. Cost of Sales | | | | |
| Pre-Separation cost | 1,16,800 | 9,600 | 9,600 | 1,36,000 |

| Post-Separation cost | | 9,600 | 14,400 | 24,000 |
|---------------------------|----------|--------|--------|----------|
| Cost of production | 1,16,800 | 19,200 | 24,000 | 1,60,000 |
| Selling expenses | 65,600 | 6,400 | 9,600 | 81,600 |
| Cost of Sales | 1,82,400 | 25,600 | 33,600 | 2,41,600 |
| 3. Profit (1-2) | 1,45,600 | 6,400 | 14,400 | 1,66,400 |
| 4. Profit as a % of sales | 44.4% | 20% | 30% | 40.8% |