EXERCISE 15(D)

Question 1.
Express in paise :
(i) Rs. 8.40
(ii) Rs. 0.97
(iii) Rs. 0.09
(iv) Rs. 62.35

Solution:

(i) Rs. 8.40 = 8.40 x 100 paise [1Rs. = 100 Paise]

$$= \frac{840}{100} \times 100 \text{ Paise}$$

$$= \mathbf{840\ Paise}$$

(*ii*) Rs. 0.97 = 0.97 × 100 paise

= 97 paise (∵ 1 Re. = 100 paise)

(*iii*) Rs. 0.09 = 0.09 × 100 Paise

= 9.00 Paise

(*iv*) Rs. 62·35 = 62·35 × 100 Paise

$$= \frac{6235}{100} \times 100 \text{ Paise}$$

$$= \mathbf{6235\ Paise.}$$

Question 2.
Express in rupees :
(i) 55 P
(ii) 8 P
(iii) 695 P
(iv) 3279 P

Solution:

$$(i)\ 55\text{P} = \frac{55}{100} = \mathbf{Rs.\ 0{\cdot}55}$$

$$(ii)\ 8\text{P} = \frac{8}{100} = \mathbf{Rs.\ 0{\cdot}08}$$

$$(iii)\ 695\text{P} = \frac{695}{100} = \mathbf{Rs.\ 6{\cdot}95}$$

$$(iv)\ 3279\text{P} = \frac{3279}{100} = \mathbf{Rs.\ 32{\cdot}79}$$

Question 3.
Express in centimetre (cm) :
(i) 6 m
(ii) 8.54 m
(iii) 3.08 m
(iv) 0.87 m
(v) 0.03 m
(vi) 25.04 m
Solution:
(i) 6 x 100 = 600 cm
(ii) 8.54 x 100 = 854 cm
(iii) 3.08 x 100 = 308 cm
(iv) 0.87 x 100 = 87 cm
(v) 0.03 x 100 = 3 cm
(vi) 25.04 x 100 = 2504 cm

Question 4.
Express in metre (m) :
(i) 250 cm
(ii) 2328 cm
(iii) 86 cm
(iv) 4 cm
(v) 107 cm
Solution:

$(i) \quad \frac{250}{100} = \mathbf{2{\cdot}50\ m}$

$(ii) \quad \frac{2328}{100} = \mathbf{23{\cdot}28\ m}$

$(iii) \quad \frac{86}{100} = \mathbf{0{\cdot}86\ m}$

$(iv) \quad \frac{4}{100} = \mathbf{0{\cdot}04\ m}$

$(v) \quad 107\ \text{cm} = \frac{107}{100}\ \text{m} = 1.07\ \text{m}$

$(\because 1\ \text{m} = 100\ \text{cm})$

Question 5.
Express in gramme (gm) :
(i) 6 kg
(ii) 5.543 kg
(iii) 0.078 kg
(iv) 3.62 kg
(v) 4.5 kg
Solution:
(i) 6 x 1000 = 6000 gm
(ii) 5.543 x 1000 = 5543 gm
(iii) 0. 078 kg = 0.078 x 1000 g = 78 g (1 kg = 1000 g)
(iv) 3.62 x 1000 = 3620 gm
(v) 4.5 x 1000 = 4500 gm

Question 6.
Express in kilogramme (kg) :

(i) 7000 gm
(ii) 6839 gm
(iii) 445 gm
(iv) 8 gm
(iv) 93 gm
(vi) 13545 gm
Solution:

$$(i) \quad \frac{7000}{1000} = 7 \text{ kg}$$

$$(ii) \quad \frac{6839}{1000} = 6{\cdot}839 \text{ kg}$$

$$(iii) \quad \frac{445}{1000} = 0{\cdot}445 \text{ kg}$$

$$(iv) \quad \frac{93}{1000} = 0{\cdot}093 \text{ kg}$$

$$(v) \quad \frac{8}{1000} = 0{\cdot}008 \text{ kg}$$

$$(vi) \quad \frac{13545}{1000} = 13{\cdot}545 \text{ kg}$$

Question 7.
Add (giving answer in rupees) :
(i) Rs. 5.37 and Rs. 12
(ii) Rs. 24.03 and 532 paise
(iii) 73 paise and Rs. 208
(iv) 8 paise and Rs. 1536

Solution:

$$(i) \quad \begin{array}{r} 5{\cdot}37 \\ +12{\cdot}00 \\ \hline 17{\cdot}37 \end{array} \quad \text{Rs.}$$

(ii) Rs. 24·03 and 532 paise

$$= \text{Rs. } 24{\cdot}03 + \frac{532}{100}$$

(∵ 1 Rupee = 100 paise)

$$= \text{Rs. } (24{\cdot}03 + 5{\cdot}32) = \textbf{Rs. 29·35}$$

(iii) 73 paise and 2·08

$$= 73 + 2{\cdot}08 \times 100$$

(∵ 100 paise = 1 Rupee)

$$= 73 + 208 = 281 \text{ paise}$$

$$\text{or } \frac{281}{100} = \textbf{Rs. 2·81}$$

(iv) 8 paise and Rs. 15·36

$$= 8 + 15{\cdot}36 \times 100$$

(∵ 100 paise = 1 Rupee)

$$= 8 + 1536 = 1544 \text{ paise}$$

$$\text{or } \frac{1544}{100} = \textbf{Rs. 15·44}$$

Question 8.
Subtract :
(i) Rs. 35.74 from Rs. 63.22
(ii) 286 paise from Rs. 7.02
(iii) Rs. 0.55 from 121 paise
Solution:

(*i*) Rs. 35·74 from Rs. 63·22

$$\begin{array}{r} 63{\cdot}22 \\ -35{\cdot}74 \\ \hline 27{\cdot}48 \end{array}$$

(*ii*) 286 paise from Rs. 7·02

$= \text{Rs. } 7{\cdot}02 - 286 \text{ paise}$

$= \text{Rs. } 7{\cdot}02 - \frac{286}{100}$

(∵ 1 Rupee = 100 paise)

$= \text{Rs. } 7{\cdot}02 - 2{\cdot}86 = \mathbf{Rs.\ 4{\cdot}16}$

(*iii*) Rs. 0·55 from 121 paise

$= \text{Rs.} \frac{121}{100} - 0{\cdot}55$

$= \text{Rs. } 1{\cdot}21 - 0{\cdot}55 = \mathbf{Rs.\ 0{\cdot}66}$

or ·66 × 100 = 66 paise

Question 9.

Add (giving answer in metre) :

(i) 2.4 m and 1.78 m

(ii) 848 cm and 2.9 m

(iii) 0.93 m and 64 cm

Solution:

(*i*) 2·4 m and 1·78 m

$$\begin{array}{r} 2{\cdot}40\text{m} \\ +1{\cdot}78\text{m} \\ \hline \mathbf{4{\cdot}18\text{m}} \end{array}$$

(*ii*) 848 cm + 2·9 m

$= \frac{848}{100}\text{m} + 2{\cdot}9\text{ m}(1\text{m} = 100\text{ cm})$

$= 8{\cdot}48 + 2{\cdot}9\text{ m} = 8{\cdot}48 + 2{\cdot}90\text{ m}$

$= \mathbf{11{\cdot}38\ m}$

(*iii*) 0·93 m + 64 cm

$= 0{\cdot}93\text{ m} + \frac{64}{100}\text{cm}$

$= 0{\cdot}93 + 0{\cdot}64\text{ m} = \mathbf{1{\cdot}57\ m.}$

Question 10.

Subtract (giving answer in metre) :

(i) 5.03 m from 19.6 m

(ii) 428 cm from 1033 m

(iii) 0.84 m from 122 cm

Solution:

$$(i)\quad \begin{array}{r} 19{\cdot}60 \text{ m} \\ -5{\cdot}03 \text{ m} \\ \hline \mathbf{14{\cdot}57 \text{ m}} \end{array}$$

(ii) $1033 \text{ m} - 428 \text{ cm}$

$= 1033 \text{ m} - \frac{428}{100} \text{m}$

$(\because 1 \text{ m} = 100 \text{ cm})$

$= 1033 \text{ m} - 4{\cdot}28 \text{ m}$

$= (1033{\cdot}00 - 4{\cdot}28) \text{ m} = \mathbf{1028{\cdot}72 \text{ m}}$

(iii) $122 \text{ cm} - 0{\cdot}84 \text{ m}$

$= \frac{122}{100} \text{m} - 0{\cdot}84 \text{ m}$

$= 1{\cdot}22 \text{ m} - 0{\cdot}84 \text{ m} = \mathbf{0{\cdot}38 \text{ m or } 38 \text{ cm}}$

Question 11.

Add (giving answer in kg) :

(i) 2.06 kg and 57.864 kg

(ii) 778 gm and 1.939 kg

(iii) 0.065 kg and 4023 gm

Solution:

(i) $2{\cdot}06 \text{ kg} + 57{\cdot}864 \text{ kg}$

$= 2{\cdot}060 \text{ kg} + 57{\cdot}864 \text{ kg} = \mathbf{59{\cdot}924 \text{ kg}}$

(ii) $778 \text{ gm} + 1{\cdot}939 \text{ kg}$

$= \frac{778}{100} \text{kg} + 1{\cdot}939 \text{ kg}$

$= 0{\cdot}778 \text{ kg} + 1{\cdot}939 \text{ kg}$

$= 0{\cdot}778 \text{ kg} + 1{\cdot}939 \text{ kg} = \mathbf{2{\cdot}717 \text{ kg}}$

(iii) $0{\cdot}065 \text{ kg} + 4023 \text{ gm}$

$= 0{\cdot}065 \times 1000 \text{ gm} + 4023 \text{ gm}$

$= 65 \text{ gm} + 4023 \text{ gm} \quad = \mathbf{4088 \text{ gm}}$

or $\frac{4088}{1000} = \mathbf{4{\cdot}088 \text{ kg.}}$

Question 12.

Subtract (giving answer in kg) :

(i) 9.462 kg from 15.6 kg

(ii) 4317 gm from 23 kg

(iii) 0.798 kg from 4169 gm

Solution:

(*i*) 15·600 kg – 9·462 kg

= 6·138 kg

(*ii*) 23 kg – 4317 gm

$= 23 \text{ kg} - \frac{4317}{1000} \text{ kg}$

= 23·000 kg – 4·317 kg

= 18·683 kg

(*iii*) 4169 gm – 0·798 kg

$\frac{4169}{1000}$ kg – 0·798 kg

4·169 kg – 0·798 kg = **3·371 kg**