

(19)

GMT

Ques. Find the corresponding time in Karachi (GMT+5) when it is 10:30 hrs in Delhi (GMT+5½)

Sol. Time difference b/w Delhi & Karachi  
 $= (+5½) - (+5)$   
find  $5½$  given = 30 minutes

Local time in DEL = 10:30  
 $\therefore$  Corresponding time in KHI = 10:30 - 00:30  
Karachi = 10:00 hrs

Ques. Find the corresponding time in Tokyo (GMT+9) when it is 15:00 hrs in Brisbane (Australia) (GMT+10)

Sol. Time difference b/w Tokyo & Australia  
 $= (9) + (10) - 10 - 9$   
 $= 1$  minutes hrs

Local time in Tokyo = 15:00 | 1 May

$\therefore$  Corresponding time in Australia  
 $= 15:00 - 1:00$   
 $= 14:00$  hrs  
the same day.

Ques. What will be the local time in Hong Kong (GMT+8) when it is 14:00 here in Sydney (GMT+10). (Australia)

Sol Time difference: Hong Kong & Sydney

$$= 10 - 8$$

$$= 2 \text{ hrs.}$$

Local time in Hong Kong = 14:00 hrs

$$\therefore \text{Corresponding time in Sydney-Hongkong}$$

$$= 14:00 + 2:00$$

$$= 12:00 \text{ hrs.}$$

Ques. It is 14:00 here in Hong Kong (GMT+8). Find the corresponding time in Sydney (GMT+10).

Sol Time difference = (+8) - (+10)

$$= -2 \text{ hrs.}$$

$$14:00 + 2:00 = 16:00$$

Ques. The local time in New York (-4) is 18:00 hrs find the corresponding time in Hawaii (-10).

8  
5½

Sol Time difference = ~~4~~ ~~(+10)~~ ~~+4~~  
= ~~6 hrs~~ - 8.

18:00 - 6:00 = 12:00.

Ques. It is 04:00 hrs in Delhi (GMT+5½)

Find the corresponding time in London (GMT+1)

Sol  
T.D = (5½) - (1)  
= 4½ hrs

Local time Delhi	04:00 hrs	+ 24:00
	4:30	- 04:30
	<hr/> 00:30	<hr/> 23:20 hrs

27:00

28:00

- 04:30

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23:20

Ques Local time in Delhi (GMT+5½) is 05:30 hrs on 15 May find the corresponding time in New York (GMT-4)

Sol Time difference =  $(+5\frac{1}{2}) - (-4)$   
 $= 9\frac{1}{2}$

29:30  
 L.T = 05:30 / 15 may + 24/00  
 (-) 09:30

20:00 hrs / 14 may

Ques. Local time in Delhi (GMT + 5 $\frac{1}{2}$ ) is 08:30 hrs 10 April find the corresponding time in Hongkong (GMT + 8) find the corresponding time in Paris (GMT + 2) & New York (GMT - 4)

Sol  $(GMT + 5\frac{1}{2}) - (GMT + 8)$   
 $(GMT + 8) - (GMT + 5\frac{1}{2})$   
 $3\frac{1}{2}$

08:30  
 01:30  
 07:00

L.T = 08:30  
 - 3:30  
 -----  
 5:00

8 - 5 = 3  
 $2\frac{1}{2}$

760  
 8:30  
 5:30  
 -----  
 2:30  
 -----  
 8:30  
 + 2:30  
 -----  
 11:00

Ques. What is the GMT time when it is 16:00 hrs day in Delhi.

sol  $GMT = 16:00 \text{ hrs} (5\frac{1}{2}) - (0)$

$$15:00$$

$$16:00$$

$$\underline{5:30}$$

$$10:30$$

GMT + 5:30 = 16:00

GMT = 10:30 hrs / Same date.

Ques It is 13:00 hrs GMT. find the local time in Delhi.

sol  $13:00 = GMT = 5\frac{1}{2} = L.T$

$13 + 5\frac{1}{2} = DEL$

$18:30 / 18\frac{1}{2} = DEL$

Same Date.

Ques It is 23:00 hrs GMT find the local time in HKG (GMT + 8).

sol

$(+8) - (0) = (+8)$

= 8

$$\begin{array}{r}
 23:00 \\
 + 8:00 \\
 \hline
 07:00
 \end{array}$$

$$\begin{array}{r}
 23:00 \\
 + 8:00 \\
 \hline
 31:00
 \end{array}$$

(0) 7:00  
23:00

Ques. It is 02:00 hrs in NYC find the corresponding time GMT (-4)

sol  $(-4) - (0) = -4$

02:00

4:00

06:00

same date

Ques. What is the total transportation time for a flight from Zurich to Tokyo departure Zurich is on 19<sup>th</sup> April at 12:55 hrs 19 April and arrival Tokyo is at 15:55 hrs / 20 April.

sol Arrival - Departure

Step (1) Convert Dep time to GMT

(2) Convert Arr time to GMT

(3) flight time = Arrival - Dep

Zurich  $\rightarrow$  (GMT+2) Tokyo  $\rightarrow$  (GMT+9)

Step (1) LT in ZRH is 12:55 / 19 April

TD b/w ZRH & GMT / PM

$= (-0) + (+2)$

$= (+2) - (0)$

$= 2 \text{ hrs.}$

$\therefore$  GMT time of Dep.

$$= 12:55 \checkmark$$

$$\rightarrow 02:00 \checkmark$$

10:55 hrs / 19 April.

Step (2). Local time in Tokyo is 15:55 hrs / 20 April. b/w GMT / PM.

$$= (+9) - (0)$$

$$= 9 \text{ hrs}$$

$\therefore$  GMT time of Arr.

$$= 15:55$$

$$09:00$$

06:55 / 20 April

Step (3). flight time = Arr - Dep.  
 $= 06:55 - 16:55$

Ques. What is transportation time for a flight from Mumbai to Mauritius  
 Mumbai (GMT + 4) & (GMT + 5 1/2)  
 from 00:30 Friday

sol Dep 00:30 / Friday  
 Arr 05:00 / Friday.

step (1). Convert departure time to GMT.  
 L.T is 00:30 Friday

T.D b/w Mumbai & Mauritius  
 $5\frac{1}{2} - 0 = 5\frac{1}{2}$  hrs.

GMT Dep 00:30 + 24:00  
 5:30  
 19:00 hrs

step (2) Local time in Mumbai Mauritius  
 5:00 / Friday.

T.D b/w Mauritius  
 = 4 - 0  
 = 4 hrs.

05:00  
 4:00  
 1:00 hrs



$$\begin{aligned}
 \textcircled{3} \quad \text{flight time} &= \text{Arr} - \text{Dep} \\
 &= 01:00 + 24:00 \\
 &= 25:00 - 19:00 \\
 &= 06:00 \text{ hrs.}
 \end{aligned}$$

Ques. What is the total transportation time of the flight departure Chicago is 17:35 & arrived on 7:25

$$\begin{aligned}
 \text{Sol} \quad \text{Dep CHI} &= 17:35 \\
 \text{GMT} &= (+5) \\
 \hline
 &= 22:35
 \end{aligned}$$

$$\begin{aligned}
 \text{Dep LON} &= 07:25 \\
 &+ 1:00 \\
 \hline
 &= 6:25.
 \end{aligned}$$

$$\begin{aligned}
 \text{Total time} &= \text{Arr} - \text{Dep} \\
 (6:25 + 24:00) &= 30:25 \quad 29:85 \\
 &06:25 \\
 - &22:35 \\
 \hline
 &7:50
 \end{aligned}$$

7 hrs 50 minutes.

→ State whether True / false.

- (1). Travel industry uses the 24 hrs clock to eliminate confusion over the AM/PM & to facilitates easier time calculation - (True)
- (2). Jet lag can be defined as the time difference experience during long flights - (false) → (fatigue & confusion of time)
- (3). The world is divided into 24 hrs time zone.
- (4). Each time zone is of 15° degree longitude.
- (5). Longitude join North & South poles.
- (6). IDL are imaginary lines that are parallel to each other.
- (7). When the date line is crossed east bound a day is gained when it crossed west bound a day is lost.

⑧ International Date Line imaginary

line over the Pacific Ocean east & west of which dates varies.

⑨ Prime Meridian the imaginary line running through Greenwich England that connect the two poles.

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