

(19)

GMT

Ques. Find the corresponding time in Karachi
(GMT + 5) when it is 10:30 hrs
in Delhi (GMT + 5 1/2)

Sol Time difference b/w Delhi & Karachi

$$= (+5\frac{1}{2}) - (+5)$$

Find $5\frac{1}{2}$ given = 30 minutes.

Local time in DEL = 10:30

∴ 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.

$$= (9) + (10) - 10 - 9$$
$$= 1 \text{ hour}$$

Local time in Tokyo = 15:00 | 1 May

∴ Corresponding time in Australia

$$= 15:00 - 1:00$$

$$= 14:00 \text{ hrs}$$

the same day.

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

Sol Time difference: Hong Kong & Sydney

$$= 10 - 8$$

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

Local time in ~~Hong Kong~~ Sydney = 14:00 hrs

\therefore Corresponding time in Sydney Hongkong
 $= 14:00 + 2:00$
 $= 12:00 \text{ hrs.}$

Ques. It is 14:00 hrs 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

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Sol Time difference = ~~4~~ ~~(10)~~ ~~10~~
= ~~6~~ ~~hours~~ - 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

$$T.D = (5\frac{1}{2}) - (1) \\ = 4\frac{1}{2} \text{ hrs}$$

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

$$27:60$$

$$28:00$$

$$- 04:20$$

$$\underline{23:20}$$

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

C.T = 05:30 / 15 may +24/00
 \Rightarrow 09:30

20:00 hrs / 14 may.

Ques. Local time in Delhi (GMT + 5 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 = $(\text{GMT} + 5\frac{1}{2}) - (\text{GMT} + 8)$
 $= (\text{GMT} + 8) - (\text{GMT} + 5\frac{1}{2})$
 $= 3\frac{1}{2}$

60
08:30
- 5:00

03:30

C.T = 08:30
 $- 3:30$
 \hline
 $5:00$

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

260
8:30
- 5:00

3:30
+ 2:30

00

15:00
16:00
02:50
10:20



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

sol

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

$$GMT + 5:30 = 16:00$$

15:00
16:00
5:30
10:30

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

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

$$= 8$$

$$23:00 + 8:00 = 31:00$$

$$31:00 - (0) = 7:00$$

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 \rightarrow Tokyo
departure Zurich is on 19th April at 12:55 hrs and arrival Tokyo is at 15:55 hrs / 20 April.

sol Arrival - Departure

Steps (1) Convert Dep time to GMT.

(2) Convert Arr time to GMT.

(3) diff 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.

$\underline{= (0) + (+2)}$
=

$\underline{= (+2) - (0)}$

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

0 2

∴ GMT time of Dep.

$$= 12:55 \checkmark$$

$$\rightarrow 02:00 \checkmark$$

$$\underline{10:55 \text{ hrs / 19 April.}}$$

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

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

$$= 9 \text{ hrs.}$$

∴ GMT time of Arr.

$$= 15:55$$

$$\underline{09:00}$$

$$06:55 / 20 \text{ April.}$$

Step 3. fill time = Arr - Dep.

$$= 06:55 - 10:55$$

Ques. What is transportation time for a flight from Mumbai to Mauritius
Mumbai (GMT + 4) & Mauritius (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
 $\frac{5:30}{\text{hrs}}$

19:00 hrs

Step (2) Local time in 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 & arrival on 7:25

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

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

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

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.
(Int)
- (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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