

hw

ch-2

Q1) In the grid shown below some points are marked. Using the figures marked with the grid, identify the latitudes and longitudes of these points

A = 90° N ~~120~~ 75° W

B = 120° N 60° W

C = 60° N 60° E

D = 20° N 15° W

E = 0° W 150° N

F = 60° W 120° N

G = 30° W 0° N

H = 75° N 15° S

I = 150° S 45° W

J = 30° ~~W~~ 180° N

Q2) With the help of an atlas find out the longitudinal and latitudinal extension of following countries.

- a) India - 20.5937°N 78.9629°E
- b) Japan - 36.2048°N 138.2529°E
- c) South Africa - 30.5595°S , 22.9375°E
- d) Canada - 56.1304°N 106.3468°W
- e) Iran - 32.4279°N 53.6880°E

Q3) What will be local time at Delhi 77°E longitude when it is 3pm at Tokyo 139°E longitude?

Ans - Longitudes difference = $139^{\circ} - 77^{\circ} = 62^{\circ}$

$$62^{\circ} \times 4 \text{ mins} = 128 \text{ mins} = 1 \text{h } 8 \text{ mins}$$

15:08 pm

$$1 \text{h } 8 \text{ mins} + 3 \text{pm} = \cancel{16:08 \text{ pm}} = 03:08 \text{ pm}$$

Because longitude 77°E in the east.