



ST. LAWRENCE HIGH SCHOOL

JESUIT CHRISTIAN MINORITY INSTITUTION

SECOND TERM WORKSHEET NO. - 32



Class: 9

Sub: GEOGRAPHY

Date- 09/06/2020

TOPIC: Mathematical calculation of time and longitude

CHAPTER: 3

I. CHOOSE THE CORRECT OPTION

(1x15=15)

1. What is the longitude of a place where the local time is 1.15p.m when it is 4 a.m at Chicago (88°W)?
a. $60^{\circ} 20' \text{ E}$ b. $50^{\circ} 45' \text{ E}$ c. $70^{\circ} 40' \text{ W}$ d. None
2. Calculate the longitude of a place where the local time is 6.00 a.m., when the time is 9.00 p.m. at New Delhi on longitude 77° E .
a. 150°W b. 174°E c. 138°W d. 148° W
3. Calculate the location of a place where the local time is noon when it is 7.30 p.m at Greenwich.
a. 45.4° E b. 67.5° W c. 50.5°E d. None
4. What will be the local time at Delhi 77° E longitude when it is 3p.m at Tokyo 139° E longitude?
a. 10.52 a.m. b. 10.52 p.m. c. 9.30 a.m d. 2.20 a.m
5. What will be the local time at Madras 80° E , when it is 9 p.m at New York 74° W ?
a. 6.15 p.m same day b. 5.40 a.m next morning c. 3.30 p.m same day d. 7.16 a.m next morning
6. If it is 12 noon at GMT what is the time on IST?
a. 5.30p.m b. 5.00 p.m c. 5.20 p.m d. 5.30 a.m.
7. Calculate the time at 74° W longitude (New York) when it is 12 a.m at 82.5°E longitude (India).
a. 2.20 p.m b. 1.34 p.m. c. 5.00a.m d. 1.34 a.m
8. Calculate the longitude of the position of a ship whose navigation officer observes that Greenwich Mean Time is 16.00 hours when the local time is 12 noon.
a. 50° West b. 60° West c. 77°East d. None
9. When it is 6.30 a.m. at Chennai ($80^{\circ}15' \text{ E}$), it is 8.15 p.m of the previous day in New York. What is the longitude of New York?
a. $70^{\circ}30' \text{ West}$ b. $85^{\circ}40' \text{ West}$ c. $73^{\circ}30' \text{ West}$ d. $43^{\circ} 50' \text{ West}$
10. When the local time of Haldia ($88^{\circ}06' \text{ E}$, $22^{\circ}02' \text{ N}$) was 11 a.m. on Monday, the 1st January 1996, what was the time, day and date at its antipode?
a. Sunday 31st December 1995, 11p.m. c. Tuesday 2nd January 1996, 10a.m
b. Saturday 30th December 1995, 11a.m. d. Wednesday 3rd January 1996, 10a.m
11. On what day and time will an aeroplane arrive at Wellington ($174^{\circ}51' \text{ E}$) starting from Honolulu ($157^{\circ}51' \text{ W}$) at 11a.m on Sunday?
a. 8:20:56 a.m. b. 9:10:48a.m. c. 2:15:30 p.m. d. None
12. The longitude of Kolkata and Seoul are $88^{\circ}30' \text{ E}$ and $127^{\circ}06' \text{ E}$ respectively. What is the local time at Seoul when it is 12 noon at Kolkata?
a. 5.30 a.m b. 3.00a.m c. 3.30 p.m. d. 4.25 a.m
13. A hockey match held at Atlanta (85°W) Olympic at 6.00a.m was telecast directly. When it was visible at Kolkata ($88^{\circ}30' \text{ E}$)?
a. 3.56p.m b. 5.19 a.m c. 3.30 a.m d. 4.00 a.m
14. At town A (5°N , 60°W), the time is 7.30p.m. At town B, the local time is 4.15 p.m. What is the longitude of town B?
a. 110° b. 120° c. 132° d. 109°
15. When it is 8.30 p.m Friday, 31st December 2010 A.D. at New York (74°west) what would be the local time, day, date at Kolkata ($88^{\circ}30' \text{ east}$)?
a. 5a.m Saturday 1st January 2011 c. 7.a.m 30th December Thursday 2011
b. 6a.m Saturday 1st January 2011 d. None