Sub: GEOGRAPHY   **Date- 10/06/2020**

TOPIC: Mathematical sums to calculate longitude and time   **CHAPTER: 3**

I. **CHOOSE THE CORRECT OPTION**   **(1x15=15)**

1. **The time difference of a place and its antipode is always**
   c. 12 hrs

2. **The time difference between IST and GMT is**
   b. 5 hrs 30 mins

3. **The International Date line lies along the meridian**
   b. 180°

4. **A place located on 160° E meridian should have its antipode at**
   d. 20° W

5. **What will be the time at Seoul (127°06´ E) when it is 12 noon at Calcutta (88° 30´ E)?**
   a.2 hrs 34 mins 24 sec

6. **What will be the time and date at Kolkata (88° 30´ E) when it is 7 p.m on 28 February 1990 London?**
   a.   T = 00 hrs 54 mins A.M   D = 1st March 1990

7. **When the local time of Kolkata (88°30´ E, 22° 30´ N) was 8 a.m on Friday, the 1st March 1996, what was the time and date at its antipode?**
   a.   Thursday, February 29, 1996 8p.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.**
   b. 60° West

9. **When it is 6.30 a.m. at Chennai (80°15´E), it is 8.15 p.m of the previous day in New York. What is the longitude of New York?**
   c. 73°30´ West

10. **When the local time of Haldia (88°06´E, 22°02´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.

11. **On what day and time will an aeroplane arrive at Wellington (174°51´E) starting from Honolulu (157°51´W) at 11a.m on Sunday?**
    b. 9:10:48a.m.

12. **The longitude of Kolkata and Seoul are 88°30´E and 127°06´E respectively. What is the local time at Seoul when it is 12 noon at Kolkata?**
    c. 3.30 p.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°30´E)?**
    c. 3.30 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?**
    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°30´east)?**
    a.   6a.m Saturday 1st January 2011

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