Class: 9

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**
   a.   20 hrs   b. 15 hrs   c. 12 hrs   d. 10 hrs
2. **The time difference between IST and GMT is**
   a.   5 hrs 54 mins   b. 5 hrs 30 mins   c. 6 hrs 30 mins   d. 4 hrs 30 mins
3.   **The International Date line lies along the meridian**
   a.   0°   b. 180°   c. 80°   d. 60°
4. **A place located on 160° E meridian should have its antipode at**
   a.   40° E   b. 180° W   c. 0°   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   b. 16 hrs 30 mins 20 sec   c. 7 hrs 55 mins 60 sec   d. None
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 = 23 hrs 50 mins A.M   D = 2nd March 1990   c. T = 20 hrs 30 mins P.M   D = 1st March 1990
   b.   T = 00 hrs 54 mins A.M   D = 1st March 1990   d. T = 5 hrs 50 mins A.M   D = 2nd 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   c. Saturday, 2nd March, 1996 8 a.m
   b.   Thursday, February 29, 1996 8 a.m   d. None
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°15′E), it is 8.15 p.m of the previous day in New York. What is the longitude of New York?**
   a.   70°30′West   b. 85°40′West   c. 73°30′ West   d. 43° 50′ 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.   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°51′E) starting from Honolulu (157°51′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°30′E and 127°06′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°30′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°30′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

SHABARI DAS