Assignment-02

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2021-02-07, 23:59 IST.

Question 1 is of multi correct type with no partial marking.

1. Which one(s) of the following statement(s) is/are always true?
   - $A_1 + A_2 = 180^\circ$
   - $A_1 - A_2 = 90^\circ$
   - $B_1 + \alpha = 90^\circ$
   - $A_1 + \alpha = 90^\circ$

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - $A_1 + \alpha = 90^\circ$

2. Which one(s) of the following statement(s) is/are always true?
   - Points having the same latitude can be connected by a circle
   - Points having the same longitude can be connected by a circle
   - Both (a) and (b) are correct
   - Both (a) and (b) are correct

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Points having the same latitude can be connected by a circle

3. A circle depends on:
   - $\omega$
   - $\phi$
   - $L$
   - $n$

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   $\omega$

4. LC stands for
   - Hourly global irradiation on a horizontal plane under clear sky assumption
   - Hourly global irradiation on a horizontal plane under clear sky assumption averaged over a month
   - Daily global irradiation on a horizontal plane under clear sky assumption averaged over a month
   - Daily global irradiation on a horizontal plane under clear sky assumption averaged over a month

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Daily global irradiation on a horizontal plane under clear sky assumption averaged over a month

5. Find the solar time (in IST) at Mumbai (19° N, 73° E) on 5th April when the clock reads 11:45 am. Indian standard time is computed with reference to: P Yagat (25.5° N, 82° E).

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   [Solar time] IST

6. Which one(s) of the following statements is/are always true?
   - Absorption in atmosphere reduces the magnitude of solar intensity
   - Extraterrestrial radiation is always lower in intensity than that on the surface of the earth
   - Scattering in the atmosphere changes the direction of sunrays
   - More the air mass, more the direct normal irradiance

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Absorption in atmosphere reduces the magnitude of solar intensity

7. Destination angle on the equinoxes is
   - The maximum
   - $23.45^\circ$
   - The minimum

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   $23.45^\circ$

8. Atmospheric attenuation
   - Changes intensity of solar radiation
   - Changes the directivity of the solar radiation
   - Alters the spectral characteristics of the solar radiation
   - All of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   All of the above