Let us Use the Graticule

EXERCISE [PAGES 14 - 15]

Exercise | Q (A)(1) | Page 14

Choose the correct option.

66° 30' North parallel means

- 1. Arctic Circle
- 2. Equator
- 3. Antarctic Circle

Solutions : Arctic Circle

Exercise | Q (A)(2) | Page 14

Choose the correct option.

Which parallel bisects the earth?

- 1. Tropic of Cancer
- 2. Tropic of Capricorn
- 3. Equator

Solutions : Equator

Exercise | Q (A)(3) | Page 14

Choose the correct option.

What is the angular distance of the Arctic Circle from North Pole?

- 1. 66° 30'
- 2. 90°
- 3. 23° 30'

Solutions : 66° 30'

Exercise | Q (A)(4) | Page 14

Choose the correct option.

Where do the Prime Meridian and the equator intersect each other?

- 1. Southern Ocean
- 2. Atlantic Ocean

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3. African Continent

Solutions : Atlantic Ocean

Exercise | Q (A)(5) | Page 14

Choose the correct option.

Up to which parallels from the equator can the sun's rays be perpendicular?

- 1. Tropic of Cancer and Tropic of Capricorn
- 2. Arctic and Antarctic Circles
- 3. North and South Poles

Solutions : Tropic of Cancer and Tropic of Capricorn

Exercise | Q (A)(6) | Page 14

Choose the correct option.

What would be the latitude of a place on the South Pole?

- 1. 90° S
- 2. 90° N
- 3. 0°

Solutions : 90° S

Exercise | Q (B)(1) | Page 14

Read the following statement and correct the wrong one.

While describing the location of a place mentioning the meridian is sufficient.

- 1. Right
- 2. Wrong

Solutions : While describing the location of a place mentioning the meridian is sufficient. - **Wrong**

correct statement - While describing the location of a place, both parallel, as well as meridian, must be mentioned.

Exercise | Q (B)(2) | Page 14

Read the following statement and correct the wrong one.

For describing the extent of a region, it is necessary to assume the latitude and longitude of the centre of the adjoining region.

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- 1. Right
- 2. Wrong

Solutions : For describing the extent of a region, it is necessary to assume the latitude and longitude of the centre of the adjoining region. - **Wrong.**

correct statement - For describing the extent of a region, two parallels of latitude and two meridians of longitude at the extreme ends of the same region should be considered.

Exercise | Q (B)(3) | Page 14

Read the following statement and correct the wrong one.

Location of a road can be described only with a map.

- 1. Right
- 2. Wrong

Solutions : Location of a road can be described only with a map. - Wrong

correct statement - Location of a road can be described with help of a map and also by the latitude and longitude of its terminal points.

Exercise | Q (B)(4) | Page 14

Read the following statement and correct the wrong one.

0° East meridian and 180° East meridian

- 1. Right
- 2. Wrong

Solutions : 0° East meridian and 180° East meridian - Wrong

correct statement - 0° meridian and 180° meridian.

Exercise | Q (B)(5) | Page 14

Read the following statement and correct the wrong one.

The extent of a road or a river course is described with the help of the latitude of a point in the source and the longitude of a point at the end.

- 1. Right
- 2. Wrong

Solutions : The extent of a road or a river course is described with the help of the latitude of a point in the source and the longitude of a point at the end. - **Wrong**

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correct statement - The extent of a road or a river course is described with the help of the latitude and longitude of a point in the source and the latitude and longitude of a point at the end.

Exercise | Q (B)(6) | Page 14

Read the following statement and correct the wrong one.

8° 4' N parallel to 37° 66° N parallel is the correct description of a location.

- 1. Right
- 2. Wrong

Solutions : 8° 4' N parallel to 37° 66° N parallel is the correct description of a location. - **Wrong**

Correct Statement - 8° 4' N parallel to 37° 66' N parallel is an incomplete description of a location as it only describes the latitudinal spread of the location and not its longitudinal spread.

Exercise | Q (C) | Page 14

Find the locations of following cities from a world map, a map of India, or a Globe and write down the latitude and longitude of each of them.

- 1. Mumbai
- 2. Guwahati
- 3. Srinagar
- 4. Bhopal
- 5. Chennai
- 6. Ottawa
- 7. Tokyo
- 8. Johannesburg
- 9. New York
- 10. London

Solutions :

		Location		
Sr.No.	City	Parallel of Latitude	Meridian of Longitude	
i.	Mumbai	19°4' 33" N	72°52' 40" E	
ii.	Guwahati	26°08' 40" N	91°44' 10'' E	
iii.	Srinagar	34°05' 01" N	74°47' 50" E	

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iv.	Bhopal	23°15' 35" N	77°24' 45" E
۷.	Chennai	13°04' 58" N	80°16' 14'' E
vi.	Ottawa	45°25' 17" N	75°41' 50" W
vii.	Tokyo	35°41' 22" N	139°41' 30" E
viii.	Johannesburg	26°12' 15" S	28°02' 50" E
ix.	New York	40°42' 46" N	74°0' 21" W
Х.	London	51°30' 26" N	0°07' 40'' W

Exercise | Q (D) | Page 15

Find and write down the extent of the following. (Check them on the internet/ mobile).

- 1. Maharashtra (State)
- 2. Chile (A country)
- 3. Australia (A continent)
- 4. Sri Lanka (An island)
- 5. Trans Siberian Railway of Russia

(Starting point - St. Petersburg, Terminal Point -Vladivostok)

Solutions :

		Extent	
Sr. No.	Name of the Region	Latitudinal	Longitudinal
i.	Maharashtra (State)	15°30' N to 22°N	72°E to 80°50' E
ii.	Chile (A country)	16°S to 56°S	70°40' W to 75°W
iii.	Australia (A continent)	10°41' S to 43°38' S	113°09' E to 153°38' E
iv.	Sri Lanka (An island)	6°48' N to 9°50' N	79°40' E to 81°45' E
۷.	Trans Siberian Railway of Russia		
	Starting point - St. Petersburg	59°56' 03'' N	30°20' 06" E
	Terminal point - Vladivostok	43°10' 25" N	132°0' 23'' E

Exercise | Q (E) | Page 15

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Draw important parallels and meridians in the figure given below and label them with appropriate angular measures.

(Use the protractor.)



Solutions :

The important parallels and the meridians are shown in the adjacent figure:



Exercise | Q (F) | Page 15

Write the important parallels and meridians in the following table:







Solutions :



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