

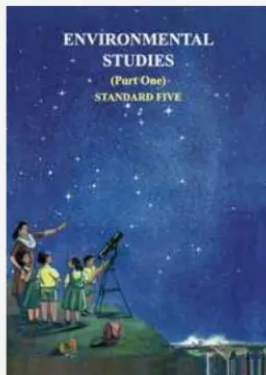
Maharashtra Board Solutions Class

5-Environmental Studies (Part 1): Chapter 2-

Motions of the Earth

BOOK SOLUTIONS
CLASS 5
ENVIRONMENTAL STUDIES (PART 1)

CHAPTER 2
Motions of the Earth



Maharashtra Board Solutions→



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5-Environmental Studies (Part 1): Chapter 2-

Motions of the Earth

Class 5: Environmental Studies Chapter 2 solutions. Complete Class 5 Environmental Studies Chapter 2 Notes.

Maharashtra Board Solutions Class 5-Environmental Studies (Part 1): Chapter 2- Motions of the Earth

Maharashtra Board 5th Environmental Studies Chapter 2, Class 5 Environmental Studies Chapter 2 solutions

Questions and Answers

1. *What is the Solution?*

Question 1.

What is the Solution?

Amit wants to take his granny to Australia which is in the southern hemisphere. But she cannot bear very cold weather. When should they make this trip?

Answer:

They should take their trip between March and September because the southern hemisphere has its summer season then.

2. *Use your brainpower!*

Question (a)

How many rotations does the earth complete during one revolution around the sun?

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Answer:

Earth makes 365 complete rotations and one quarter rotation.

Question (b)

It is sunrise at Itanagar in Arunachal Pradesh. Write the names of the following cities in the order in which the sun will rise there : Mumbai (Maharashtra), Kolkata (West Bengal), Bhopal (Madhya Pradesh), Nagpur (Maharashtra).

Answer:

Kolkata (West Bengal), Bhopal (Madhya Pradesh), Nagpur (Maharashtra), Mumbai (Maharashtra)

3. Fill in the blanks:

Question 1.

The motion of the earth around itself is called

- (a) revolution
- (b) rotation
- (c) dual motion

Answer:

- (b) rotation

Question 2.

The motion of the earth around the sun is called

- (a) revolution
- (b) rotation
- (c) dual motion

Answer:

- (a) revolution

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Question 3.

The rotation of the earth gives rise to

- (a) seasons
- (b) day and night
- (c) year

Answer:

- (b) day and night

4. What is meant by each of the following terms:

Question (a)

Full moon

Answer:

At night, when we are able to see the entire illuminated part of the moon, it is called full moon.

Question (b)

New moon.

Answer:

At night, when we are not able to see the entire moon as it does not receive the sun's light, it is called new moon.

Question (c)

Lunar month

Answer:

The period from one new moon to the next which is of 28 – 30 days is called a lunar month.

Question (d)

Tithi

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Answer:

Each day of the lunar month is called a tithi.

5. Answer the following questions.

Question (a)

What is an equator?

Answer:

1. The imaginary circle exactly in between the north and south pole is called the equator.
2. The equator divides the earth into two equal parts.

Question (b)

What are the two parts of the earth made by the equator?

Answer:

The two equal parts of the earth made by the equator are called northern hemisphere and southern hemisphere respectively.

Additional Important Questions and Answers

Fill in the blanks with the correct answers from the options given below:

Question 1.

The imaginary line around which the earth rotates is called its

- (a) axis of rotation
- (b) sphere of rotation
- (c) line of rotation

Answer:

- (a) axis of rotation

Question 2.

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The earth rotates from

- (a) east to north
- (b) west to east
- (c) west to south

Answer:

- (b) west to east

Question 3.

We divide the whole day into parts.

- (a) 365
- (b) 7
- (c) 24

Answer:

- (c) 24

Question 4.

The earth's is inclined.

- (a) equator
- (b) axis
- (c) north pole

Answer:

- (b) axis

Question 5.

The imaginary line that divides the earth into two equal parts is called the

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- (a) axis
- (b) rotation
- (c) equator

Answer:

- (c) equator

Question 6.

The earth completes one, it makes one complete turn around itself.

- (a) rotation
- (b) revolution
- (c) season

Answer:

- (a) rotation

Question 7.

The period of time that the earth takes to complete one rotation is called a

- (a) day
- (b) night
- (c) fortnight

Answer:

- (a) day

Question 8.

A day has two parts, day and

- (a) day

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- (b) night
- (c) fortnight

Answer:

- (b) night

Question 9.

We divide the whole day into 24 parts, each of which is called an

- (a) day
- (b) second
- (c) hour

Answer:

- (c) hour

Question 10.

There are about days and 6 hours in a year.

- (a) 365
- (b) 563
- (c) 356

Answer:

- (a) 365

Question 11.

A leap year has days.

- (a) 365
- (b) 366

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(c) 367

Answer:

(b) 366

Question 12.

Many of our festivals are connected with the

(a) songs

(b) games

(c) seasons

Answer:

(c) seasons

Question 13.

The revolves around the earth and the earth revolves around the sun.

(a) earth

(b) moon

(c) sun

Answer:

(b) moon

Question 14.

From the earth we see only side of the moon.

(a) three

(b) two

(c) one

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Answer:

(c) one

Question 15.

The moon has no of its own.

(a) light

(b) moonlight

(c) daylight

Answer:

(a) light

Question 16.

We can see the moon because of the light which falls on it.

(a) space

(b) earth's

(c) sun's

Answer:

(c) sun's

Question 17.

On a full moon night, we see the entire of the moon that faces the earth.

(a) light

(b) side

(c) night

Answer:

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(b) side

Question 18.

It takes days from the new moon to the full moon.

(a) 10 or 12

(b) 14 or 15

(c) 8 or 9

Answer:

(b) 14 or 15

Question 19.

The fortnight from new moon to full moon is called of the moon.

(a) waning

(b) waxing

(c) lunar

Answer:

(b) waxing

Question 20.

The fortnight from the full moon to the new moon is called the of the moon.

(a) waning

(b) waxing

(c) lunar

Answer:

(a) waning

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Question 21.

The period from one new moon to the next is called the month.

- (a) waning
- (b) waxing
- (c) lunar

Answer:

- (c) lunar

Question 22.

Every day of the lunar month is called a

- (a) cycle
- (b) tithi
- (c) season

Answer:

- (b) tithi

Question 23.

The revolution of the earth and the inclination of its axis give rise to the cycle of

- (a) seasons
- (b) festivals
- (c) songs

Answer:

- (a) seasons

Name the following:

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Question 1.

The period of time that the earth takes to complete one rotation.

Answer:

A day

Question 2.

The period of time the earth takes to complete one revolution.

Answer:

One year

Question 3.

Number of days in a leap year.

Answer:

366

Question 4.

Three main seasons in India.

Answer:

Summer, rainy and winter

Question 5.

The cycle of six seasons.

Answer:

Rituchakra

Question 6.

Every day of the lunar month.

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Answer:

A tithi

Question 7.

Two parts of a day.

Answer:

Day time and night time

Question 3.

Match the following:

'A'	'B'
(1) The Waxing moon	(a) Krishna Paksha
(2) The Waning moon	(b) 22 March to 23 September
(3) Summer in northern hemisphere	(c) Shukla Paksha
(4) Winter in northern hemisphere	(d) 23 September to 22 March

Answer:

'A'	'B'
(1) The Waxing moon	(c) Shukla Paksha
(2) The Waning moon	(a) Krishna Paksha
(3) Summer in northern hemisphere	(b) 22 March to 23 September

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- (4) Winter in northern hemisphere (d) 23 September to 22 March

Answer the following in one sentence:

Question 1.

What is the name given to the changing shapes of the moon that we see?

Answer:

The different shapes of the moon that we see are called the phases of the moon.

Question 2.

What are the names of the days on which we see a round moon and on which day we see no moon at all?

Answer:

The day we see a round moon is called Full Moon Day and the day we see no moon is called New Moon Day.

Question 3.

What is a day?

Answer:

The period of time that the earth takes to complete one rotation is called a day, that is 24 hours.

Question 4.

What is the duration of a year?

Answer:

There are about 365 days and 6 hours in a year.

Question 5.

What causes the cycle of seasons?

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Answer:

The revolution of the earth and the inclination of its axis give rise to the cycle of seasons.

Question 6.

What is the rotation of the earth?

Answer:

The movement of the earth around itself is called 'rotation of the earth'.

Question 7.

What is 'axis of rotation'?

Answer:

The imaginary line around which the earth rotates is called its 'axis of rotation'. It is an imaginary line between the north pole and south pole.

Question 8.

What is the 'equator of the earth'?

Answer:

The imaginary line that divides the earth into two equal parts i.e. the northern hemisphere and southern hemisphere is called the equator of the earth.

Question 9.

In which direction does the earth rotate?

Answer:

The earth rotates from west to east.

Question 10.

Into how many parts is the day divided?

Answer:

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The day is divided into two parts i.e. day and night.

Question 11.

Into how many hours is the 'day' divided?

Answer:

The day is divided into 24 hours.

Question 12.

What is the revolution of the earth?

Answer:

The movement of the earth around the sun in one year is called the revolution of the earth.

Question 13.

Around whom does the moon revolve?

Answer:

The moon revolves around the earth.

Question 14.

What is waxing of the moon?

Answer:

The moon takes a fortnight to move from new moon to full moon. This period of time is known as waxing of the moon.

Question 15.

What is 'waning of the moon'?

Answer:

The moon takes a fortnight to move from a full moon to new moon. This period of time is known as waning of the moon.

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Question 16.

What is a lunar month?

Answer:

The period from one new moon to the next is of 28 to 30 days. It is called the lunar month.

Question 17.

What is 'tithi'?

Answer:

Every day of the Lunar month is called a 'tithi'.

Give geographical reasons:

Question 1.

The length of day and night is not always equal.

Answer:

The length of day and night is not always equal because:

1. Of the earth's inclined axis.
2. Its revolution around the sun.

Question 2.

From 22 March to 23 September, northern hemisphere, experiences summer and southern hemisphere experiences winter.

Answer:

1. From 22 March to 23 September the days are longer than the night in the northern hemisphere.
2. It is warmer here.
3. So, it is summer.

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4. However, at this time southern hemisphere nights are longer than the days.
5. So it receives less heat.
6. Therefore, Southern hemisphere experiences winter.

Question 3.

The sun, the moon and the earth are not always along a straight line.

Answer:

1. The moon revolves around the earth.
2. The earth revolves around the sun.
3. These two orbits intersect.
4. Hence the sun, the moon and the earth are not always along a straight line.

Question 4.

We see phases of the moon.

Answer:

1. From the full moon to the new moon the illuminated part of the moon seen from the earth becomes smaller and smaller.
2. From new moon to full moon it again grows bigger and bigger.
3. Therefore we see phases of the moon.

Question 5.

Waxing moon

Answer:

The fortnight from new moon to full moon which is 14 to 15 days is called waxing moon. Here the moon seems to become bigger and bigger, i.e. it waxes.

Question 6.

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Waning moon

Answer:

The fortnight from full moon to new moon which takes 14 to 15 days is called the waning moon. Here the moon seems to become smaller and smaller, i.e. it wanes.

Answer briefly:

Question 1.

Explain 'Phases of the moon'.

Answer:

1. From the full moon to the new moon the illuminated part of the moon seen from the earth becomes smaller and smaller.
2. From new moon to full moon, the illuminated part of the moon grows bigger and bigger.
3. These different shapes of the moon that we see are called the 'phases of the moon'.

Question 2.

What are the effects of the rotation and revolution of the earth?

Answer:

1. The rotation of the earth gives rise to day and night.
2. The revolution of the earth and the inclination of its axis give rise to the cycle of seasons.

Write short notes on:

Question 1.

Leap year.

Answer:

1. In the Gregorian calendar, the year has 365 days.
2. It counts 6 hours less every year.
3. That makes 24 hours or one day in every four years.
4. This extra day is added in the fourth year in the month of February.

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5. That year will have 366 days.
6. That year is called a leap year.

Question 2.

Complete the following:

Answer:

1. The new moon $\xrightarrow{15 \text{ days}}$ the full moon –
The waxing moon
2. The full moon $\xrightarrow{15 \text{ days}}$ the new moon –
The waning moon

3. The fortnight of the waxing moon + the fortnight of the waning moon – A lunar month

Glossary:

1. waning – decreasing
2. waxing – increasing.
3. orbits – regularly repeated elliptical course of a celestial object.
4. imaginary – existing only in the imagination
5. illuminated – lit up
6. inclination – a degree of sloping.



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Class 5 Environmental Studies

Part 1

- Chapter 1- Our Earth and Our Solar System
- Chapter 2- Motions of the Earth
- Chapter 3- The Earth and its Living World
- Chapter 4- Environmental Balance
- Chapter 5- Family Values
- Chapter 6- Rules are for Everyone
- Chapter 7- Let us Solve Our own Problems
- Chapter 8- Public Facilities and My School
- Chapter 9- Maps - Our Companions
- Chapter 10- Getting to Know India
- Chapter 11- Our Home and Environment
- Chapter 12- Food for All
- Chapter 13- Methods of Preserving Food
- Chapter 14- Transport
- Chapter 15- Communication and Mass Media
- Chapter 16- Water
- Chapter 17- Clothes - Our Necessity
- Chapter 18- The Environment and Us
- Chapter 19- Constituents of Food
- Chapter 20- Our Emotional World
- Chapter 21- Busy at Work - Our Internal Organs

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- Chapter 22- Growth and Personality Development
- Chapter 23- Infectious Diseases and how to Prevent them
- Chapter 24- Substances, Objects and Energy
- Chapter 25- Community Health and Hygiene
- Chapter 3- Life on Earth
- Chapter 4- Evolution
- Chapter 5- Evolution of Mankind
- Chapter 6- Stone Age: Stone Tools
- Chapter 7- From Shelters to Village-settlements
- Chapter 8- Beginning of Settled Life
- Chapter 9- Settled Life and Urban Civilization
- Chapter 10- Historic Period

Part 2

- Chapter 1- What is History?
- Chapter 2- History and the Concept of 'Time'

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The Maharashtra government established the Maharashtra State Bureau of Textbook Production and Curriculum Research, also commonly referred to as Ebalbharati, in 1967 to take up the responsibility of providing quality textbooks to students from all classes studying under the Maharashtra State Board. MSBHSE prepares and updates the curriculum to provide holistic development for students. It is designed to tackle the difficulty in understanding the concepts with simple language with simple illustrations. Every year around 10 lakh students are enrolled in schools that are affiliated with the Maharashtra State Board.

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