

# Question bank

## Chapter-1 Theme 1 The solar system

### Q-1 Answer these questions.

1. What is the difference between a meteoroid, a meteor and a meteorite?
2. Compare the structure of an asteroid to that of a comet.
3. How is a star able to radiate light and heat?
4. What is an orbit?
5. Where will you find the asteroid belt in space?

### Q-2 Answer these questions.

1. Why are Venus, Earth and Mars closer to the Sun than are Jupiter and Uranus?
2. Is the Sun a planet? Explain.
3. Which feature of Uranus makes it unique?
4. Why are astronomers so interested in exploring Mars?
5. What is the Milky Way?
6. Are a galaxy and a constellation of stars the same thing? Explain.

### Q-3 Answer these questions.

1. Define the terms "gravity" and "gravitational pull".
2. What is the relationship between an object's mass and its gravitational pull?
3. Why do astronauts drift about inside the International Space Station (ISS)?
4. Name one activity which would be difficult to do inside the ISS.
5. What would you weigh on the Moon?

## Chapter-2 Theme 1 The Earth and its movements

### Q-1 Answer questions about the Earth's movements.

1. Explain the differences between the rotation of the Earth and the revolution of the Earth, and the different effects that these two movements have.
2. Use your records from draw a moon calendar, showing the phase changes of the Moon during the past 28 days.
3. Predict the phase changes that will occur over the next 28 days.
4. Look for tidal calendars on the Internet to check if you correctly identified the tides on your moon calendar

## Chapter-3 Theme 1 Changes in our climate

Q-1 **Answer these following questions .**

- a) Which weather instruments are used in weather stations?
- b) What does each instrument measure?
- c) In which units are these measurements recorded?

Q-2 **Answer these following questions.**

- 1) How does a weather satellite communicate weather conditions to meteorologists?
- 2) How do meteorologists communicate weather conditions to the public?
- 3) Why do we need weather records?

Q-3 **Answer these questions.**

- a) How would you work out the average temperature of Port Harcourt for January?
- b) How would you work out the average temperature of Port Harcourt for the whole year?
- c) Which months are the wettest and which are the driest?
- d) How would the daylight hours help you to determine which months fall in the summer or winter season?

Q-4 **Answer these questions.**

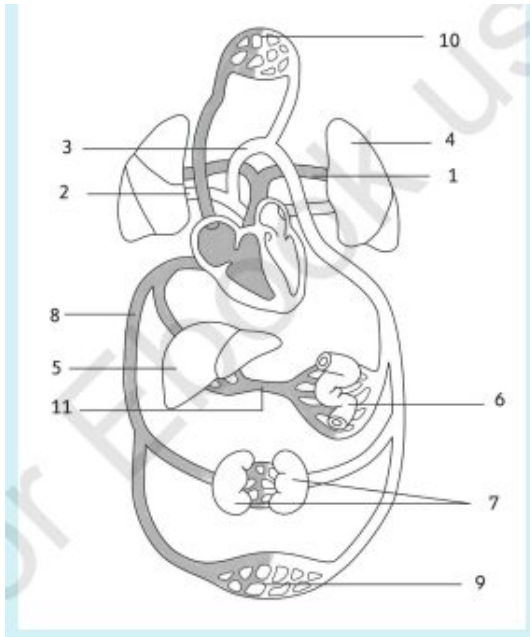
1. Explain how weather records help scientists to identify changes in the world's climate

## Chapter-4 Theme 1 Forces

Q-1 **Fill in the missing words.**

1. The blood system or \_\_\_\_\_ system carries blood to every part of the body. The blood system is made up of a network of \_\_\_\_\_ . The heart works like a \_\_\_\_\_, and therefore keeps blood circulating through the vessels. The heart is made of a special type of muscle called \_\_\_\_\_ . The functions of the heart are to supply \_\_\_\_\_ and \_\_\_\_\_ to the tissues and to remove \_\_\_\_\_ and other \_\_\_\_\_ from the tissues.

Q-2 **Study the following diagram of the blood circulation in humans and answer the questions below it.**



## Chapter-6 Theme 1 Human body system: Reproduction

Q-1 **Answer these following questions.**

- Define the reproduction.
- Define the fertilisation.
- State two differences between sexual reproduction and asexual reproduction.

Q-2 **Complete the following table.**

	Male	Female
Hormone produced by the reproductive system		
Name of gamete		
The place where gametes are produced		
The organs that transfer gametes		

## Chapter-7 Theme 1 Air

Q-1 **Answer these questions.**

- Explain why air pressure at sea level is higher than on higher ground, for example, on a mountain.
- What creates lift on the wing of an aeroplane?

3. Explain how air pressure enables an aeroplane to become airborne
4. How does a hot-air balloon stay afloat?

## **Chapter-8 Theme 1 Mineral resources**

### **Q-1 Answer these following questions.**

1. Why would the use of lead in a battery prolong its life?
2. Name the mineral which made tarred roads possible.
3. Is paraffin a mineral that is found in Nigeria?
4. Which powdery mineral is used to produce paint?

## **Chapter-9 Theme 2 Primary and secondary colours**

### **Q-1 Answer these following questions.**

1. What would happen if the Sun no longer shone?
2. What are the colours present in white light?
3. Why do we see an object as red?
4. How is a rainbow formed?
5. How do the primary colours of light differ from those of paint?
6. How are secondary colours formed?

## **Chapter-14 Theme 2 Simple machines: Pulleys**

### **Q-1 Fill in the blanks.**

1) In high-rise buildings, pulleys provide \_\_\_\_\_ with the power to lift heavy loads safely. A pulley in a \_\_\_\_\_ makes the lifting task easier by changing the direction of movement. Tall pulleys fitted with a hook attachment are commonly use in \_\_\_\_\_ . Search and rescue personnel use pulleys to \_\_\_\_\_ .

## **Chapter-16 Theme 3 Physical fitness and body conditioning**

### **Q-1 Answer these following questions.**

1. Write down two ways you can develop muscular strength.
2. Explain how you would increase your flexibility.
3. Name three components of overall physical fitness.

4. Can you think of any consequences of not maintaining good overall physical fitness? Write down your ideas.

**Q-2 Answer these following questions.**

1. What equipment is needed for the 10 m shuttle run?
2. Explain how the 10 m shuttle run is done.
3. How is a sergeant jump done?
4. Describe how to do the beam walk.

## **Chapter-17 Theme 3 Athletics: Track events**

**Q-1 Answer questions on track events**

1. Name two skills an athlete uses to run relay races.
2. Why do athletes use a non-visual baton exchange in the 4 × 100 m relay?
3. Why is it important to grasp the baton firmly in relay races?
4. Explain this statement: "The receiving athlete should not start running too soon."
5. Explain the three-step method used in hurdles.
6. How can you ensure that you always clear the hurdle with your leading foot?
7. Why is it important to use your arms correctly in a hurdle race?

## **Chapter-18 Theme 3 Athletics: Field events**

**Q-1 Answer these following questions.**

1. Provide a definition of the high jump event.
2. Name three styles in high jump, and name the one which is used by most professional high jumpers today.
3. What could get you disqualified in high jump, even if you clear the bar?
4. Explain how many times you must attempt a jump at an official event.
5. List three rules of long jump.

## **Chapter-21 Theme 3 Personal and environmental health**

**Q-1 Answer these following questions.**

- a) The article mentions several causes of noise pollution. Write down a list of all the causes that you noticed in the article.

- b) Give two reasons why children with hearing loss cannot benefit from hearing aids.
- c) Explain why the writer is concerned about everyday sounds above the 115 dB sound level.

**Q-2 Answer these following questions.**

- a) Refer to the causes and effects of noise pollution in the article and the rest of this topic.
- b) Make suggestions on what could be done about these problems.

## **Chapter-22 Theme 3 Use of medicine**

**Q-1 Answer these following questions.**

- a) at least three features you could use to identify fake medicine.
- b) the normal dosage of some common medicines.
- c) examples of the effects of normal use of medicine.

## **Chapter-23 Theme 3 Effects of drug abuse**

**Q-1 Answer these question.**

1. Imagine that a local newspaper has asked you to write an article to inform children and young people about the dangers of drug abuse. Write an article that includes information on:
  - a) examples of hard drugs.
  - b) the health effects of drug abuse.
  - c) examples of how people are affected by drug abuse.
  - d) where people in your community can get information and counselling about drugs and drug addiction in your community.
2. Different members of the group can be responsible for writing different parts of the article. You can then all work together to check and improve the draft article before you neatly write the final article.

## **Chapter-24 Theme 4 Word processing with the computer**

**Q-1 Answer these following questions.**

1. How do you think your school uses a word processing application?
2. What would you like to do using a word processor at school?

## **Chapter-26 Theme 4 Precautions in the use of computers**

### **Q-1 Answer these questions.**

1. What does an Uninterruptible Power Supply protect a computer from?
2. What is the biggest danger of overloading electricity sockets?
3. Write a few sentences on why you think it is important to care for computer users
4. List three things you will do to be safe when working on a computer

## **Chapter-28 Theme 4 IT and society**

### **Q-1 Answer these questions.**

1. Make a list of all the places that you could use a public computer to complete a school assignment or access the Internet.
2. Which aspects of information technology, if any, do not fit well with your own religious beliefs or traditions?
3. What advice would you give to somebody who was worried about losing their job because of computers?