

- Question 29:** The verb "pick up" in paragraph 3 is closest in meaning to _____.
 A. send B. receive C. select D. lift
- Question 30:** According to the passage, which of the following statements is TRUE?
 A. The pattern of radio waves received by radio telescopes is significant.
 B. The largest radio telescope of all time is the one with a seventy-six-meter diameter.
 C. A larger dish antenna helps a radio telescope produce better results.
 D. The Big Ear in the United States produces the largest array of telescopes.
- Question 31:** The word "current" in paragraph 4 is closest in meaning to _____.
 A. water movement B. electricity flow C. moving D. existing
- Question 32:** The word "they" in paragraph 5 refers to _____.
 A. places B. scientists C. radio waves D. eyes and ears
- Question 33:** Radio waves are scientists' eyes and ears in outer space because _____.
 A. they allow them to travel to such dangerous places as Mars
 B. they help to track only manned space missions in space
 C. they can recognize who dominates the universe
 D. they can help them understand more about the universe
- Question 34:** The focus of discussion in the passage is _____.
 A. radio telescopes B. radio waves
 C. radio operators D. atoms and molecules
- Question 35:** Originally, this passage was probably published in _____.
 A. a fashion magazine B. a scientific journal
 C. a business journal D. a book on environment

Read the following passage and mark the letter A, B, C, or D on your answer sheet to indicate the word or phrase that best fits each of the numbered blanks from 36 to 45.

Why is it that many teenagers have the energy to play computer games until late at night but can't find the energy to get out of bed (36)_____ for school? According to a new report, today's generation of children are in danger of getting so (37)_____ sleep that they are putting their mental and physical health at (38)_____. Adults can easily survive on seven to eight hours' sleep a night, (39)_____ teenagers require nine or ten hours. According to medical experts, one in five youngsters (40)_____ anything between two and five hours' sleep a night less than their parents did at their age.

This (41)_____ serious questions about whether lack of sleep is affecting children's ability to concentrate at school. The connection between sleep deprivation and lapses in memory, impaired reaction time and poor concentration is well (42)_____. Research has shown that losing as little as half an hour's sleep a night can have profound effects (43)_____ how children perform the next day. A good night's sleep is also crucial for teenagers because it is while they are asleep (44)_____ they release a hormone that is essential for their 'growth spurt' (the period during teenage years when the body grows at a rapid rate). It's true that they can, to some (45)_____, catch up on sleep at weekends, but that won't help them when they are dropping off to sleep in class on a Friday afternoon.

By Tim Falla and Paul A. Davies. Solutions Advanced. OUP

- Question 36:** A. in time B. at time C. behind time D. about time
- Question 37:** A. less B. little C. few D. much
- Question 38:** A. risk B. danger C. threat D. jeopardy
- Question 39:** A. because B. so C. or D. whereas
- Question 40:** A. makes B. puts C. gets D. brings
- Question 41:** A. rises B. raises C. comes D. results
- Question 42:** A. arranged B. organized C. established D. acquired
- Question 43:** A. on B. in C. at D. to
- Question 44:** A. where B. that C. which D. at which
- Question 45:** A. level B. rate C. extent D. point

Mark the letter A, B, C, or D on your answer sheet to indicate the word(s) CLOSEST in meaning to the underlined word(s) in each of the following questions.

- Question 46:** Even though the mountain was very steep and the climb was hazardous, several adventurous tourists managed to reach the top.
 A. causing a lot of risks B. bringing excitement
 C. costing a lot of money D. resulting in depression

Question 47: Thanks to the invention of the microscope, biologists can now gain insights into the nature of the human cell.

- A. deep understanding
- B. in-depth studies
- C. spectacular sightings
- D. far-sighted views

Question 48: Just like hearing infants who start first with simple syllable babbling, then put more syllables together to sound like real sentences and questions, deaf babies follow the same pattern.

- A. able to hear
- B. physically abnormal
- C. hard of hearing
- D. obedient to parents

Question 49: Dozens of applicants showed up for the vacant position, but only a handful of them were shortlisted for the interview.

- A. small number
- B. hand
- C. class
- D. small amount

Question 50: Now many people who shop at a health food store instead of a local supermarket are much more likely to find a healthy, sugar-free beverage.

- A. convenient to prepare
- B. beneficial to health
- C. harmful to health
- D. full of preservatives

Read the following passage and mark the letter A, B, C, or D on your answer sheet to indicate the correct answer to each of the questions from 51 to 60.

The ability to conduct electricity is one of the key properties of a metal. Other solid materials such as silicon can conduct electricity but only effectively at certain temperatures. Also, some substances such as salt (sodium chloride) can conduct when molten or when dissolved in water. The ability of metals to conduct electricity is due to how their atoms bond together. In order to bond together the metal atoms lose at least one of their **outermost** electrons. This leaves the metal atoms with a positive charge and they are now strictly ions. The lost electrons are free to move in what is known as a sea of electrons. Since the electrons are negatively charged they attract the ions and this is what keeps the structure together.

An electric current is a flow of charge and since the electrons in the sea of electrons are free to move they can be made to flow in one direction when a source of electrical energy such as a battery is connected to the metal. Hence we have an electric current flowing through the wire, and this is what makes metals such good conductors of electricity. The only other common solid conducting material that pencil users are likely to encounter is graphite (what the 'lead' of a pencil is made from). Graphite is a form of carbon and again the carbon atoms bond in such a way that there is a sea of electrons that can be made to flow as an electric current. Likewise, if we have an ionic substance like salt we can make the electrically charged ions flow to create a current but only when those ions are free to move, either when the substance is a liquid or dissolved in water. In its solid state an ionic substance like salt cannot conduct electricity as its charged ions cannot flow.

Electrical insulators are substances that cannot conduct electricity well either, because they contain no charged particles or any charged particles **they** might contain do not flow easily. Water itself is a poor conductor of electricity as it does not contain a significant amount of fully charged particles (the ends of a water molecule are partly charged but overall the molecule is neutral). However, most water we encounter does contain dissolved charged particles, so it will be more conductive than pure water. Many of the problems that occur when touching electrical devices with wet hands result from the ever-present salt that is left on our skin through perspiration and it dissolves in the water to make it more conductive.

By Helena Gillespie and Rob Gillespie. Science for Primary School Teachers. OUP

Question 51: Electrical conductivity is _____.

- A. one of the most important properties of metals
- B. one of the key properties of most solid materials
- C. impossible for any substance when it is dissolved in water
- D. completely impossible for silicon

Question 52: According to the passage, a metal can conduct electricity due to _____.

- A. the loss of one electron in the core of its atoms
- B. the way its atoms bond together
- C. the absence of free electrons
- D. its atoms with a positive charge

Question 53: The word "**outermost**" in paragraph 1 mostly means _____.

- A. furthest from the inside
- B. nearest to the inside
- C. the heaviest
- D. the lightest

Question 54: The atoms of a metal can bond together because _____.

- A. they lose all of their electrons
- B. negatively charged electrons attract positive ions
- C. electrons can flow in a single direction
- D. the lost electrons cannot move freely in the sea of electrons

- Question 72:** They arrived too late to get good seats.
- A. As they got there too late, there were no good seats left.
 - B. Although they were late, they found some good seats.
 - C. They got good seats some time after they arrived.
 - D. They had to stand for the whole show.
- Question 73:** It was only when I left home that I realized how much my family meant to me.
- A. Not until I left home did I realize how much my family meant to me.
 - B. I left home and didn't realize how meaningful my family was.
 - C. Before I left home, I realized how much my family meant to me.
 - D. As soon as I left home, I found out what a family could do without.
- Question 74:** I forgot to lock the door before leaving.
- A. I locked the door before leaving, but I forgot about it.
 - B. I left without remembering to lock the door.
 - C. I remembered that I left the door locked before going out.
 - D. I didn't remember whether I locked the door before leaving.
- Question 75:** There is no question of changing my mind about resigning.
- A. I should have changed my mind about resigning.
 - B. They asked me no question about resigning.
 - C. I certainly won't change my mind about resigning.
 - D. Nobody knows about my decision on resigning.
- Question 76:** When there is so much traffic on the roads, it is sometimes quicker to walk than to go by car.
- A. There is so much traffic these days that it is more pleasant to walk than to drive.
 - B. The traffic is always so heavy that you'd better walk to work; it's quicker.
 - C. It is faster to walk than to drive in the heavy traffic at certain time of the day.
 - D. During rush hours, walking gives me much more pleasure than driving in the heavy traffic.
- Question 77:** It's difficult for me to understand what he implies.
- A. I find it difficult to understand what he really means.
 - B. Understanding what he implies is found difficult.
 - C. What he implies is not very difficult to understand.
 - D. To understand what he really means is difficult to find.
- Question 78:** "Get out of my car or I'll call the police!" Jane shouted to the strange man.
- A. Jane threatened to call the police if the man didn't leave her car.
 - B. Jane plainly said that she would call the police.
 - C. Jane politely told the man she would call the police if he didn't leave her car.
 - D. Jane informed the strange man that she would call the police.
- Question 79:** John said, "You'd better not lend them any money, Daisy."
- A. John ordered Daisy not to lend them any money.
 - B. John commanded Daisy not to lend them any money.
 - C. John asked Daisy if she had lent them any money.
 - D. John advised Daisy not to lend them any money.
- Question 80:** This village is inaccessible in winter due to heavy snow.
- A. Heavy snow makes it impossible to reach the village in winter.
 - B. Nobody likes to come to this village in winter because of heavy snow.
 - C. We cannot gain permission to this village in winter because of heavy snow.
 - D. We have no difficulty reaching this village in winter because of heavy snow.

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