



## Verbal Reasoning Practice Test 10

### Question Booklet

### Instructions

This verbal reasoning test comprises 30 questions, and you will have 25 minutes in which to correctly answer as many as you can.

You will be presented with a passage to read, and a statement about that passage. You must select one of the following answers:

**True:** *The statement follows logically from the information or opinions contained in the passage.*

**False:** *The statement is logically false from the information or opinions contained in the passage.*

**Cannot Say:** *It is not possible to determine whether the statement is true or false without further information.*

You will have to work quickly and accurately to perform well in this test. If you don't know the answer to a question, leave it and come back to it if you have time.

Try to find a time and place where you will not be interrupted during the test. When you are ready, begin the test.

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As their name suggests, Asian carp are not indigenous to the United States, yet these invasive fish have become the subject of a Supreme Court lawsuit. Introduced in the US in 1831, carp were originally intended for consumption although today they are not widely eaten. Populations have flourished in the Mississippi and Illinois Rivers since the 1970s, when it is thought that they escaped from Midwestern fish farms during heavy flooding. Carp consume only plankton, although vast amounts of it, and some species of Asian carp can grow to over one hundred pounds. Not only are the fish a hazard to recreational boaters, they also compete with native species for food and space. Environmentalists fear that carp will infiltrate the Great Lakes, via locks connecting the Mississippi to Lake Michigan, where they would damage the ecosystem. They also fear that by crowding out species such as salmon, Asian carp would also be detrimental to the Great Lakes' sports fishing industry. The US government currently spends \$80 million per annum on Asian carp control, using methods such as toxins and underwater electric barriers designed to repel carp. Evidence of carp in Lake Michigan however has led anticarp activists to call for stronger measures, such as blocking off the locks on the Chicago canal. Business interests strongly oppose the closure of this major shipping lane for economic reasons, also arguing that forcing canal traffic onto the roads will cause pollution.

- Q1** Anticarp activists have demanded more drastic measures of carp control in the US Supreme Court.
- True                      False                      Cannot say
- Q2** Heavy flooding in the 1970s resulted in Asian carp proliferating in the Mississippi and Illinois Rivers.
- True                      False                      Cannot say
- Q3** Environmentalists believe that Asian carp would damage the Great Lakes' ecosystem by preying on native salmon.
- True                      False                      Cannot say
- Q4** Electric barriers are not a fully effective means of carp control.
- True                      False                      Cannot say
- Q5** Anticarp activists are motivated by environmental concerns rather than business interests.
- True                      False                      Cannot say

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The most prevalent neurological condition in the developed world, migraine is characterised by severe, recurrent headaches, with additional symptoms including nausea and sensitivity to light and sound. The frequency and duration of migraine attacks are variable: attacks may occur a few times a year or several times per month, while pain may last between four hours and three days. Approximately one third of sufferers experience an aura - a perceptual disturbance occurring before the migraine's onset. There are numerous theories on the cause of migraines. The vascular theory posits that migraines are caused by problems with blood vessels in the brain. A more widely held view is that migraines result from low levels of the neurotransmitter serotonin in the brain. Prophylactic drug treatment, which prevents the onset of migraines, has declined in recent years, because of side effects and also improvements in medications treating an actual attack. Whereas older varieties of pain medication are potentially addictive, newer drugs called triptans work by reducing pain information travelling to the brain. Treatment plans typically include avoidance of known migraine triggers, such as diet, alcohol, and stress, as overuse of medication can lead to chronic "rebound headaches." Not only do migraines have a debilitating effect on sufferers, they are also bad for the economy, with an estimated 25 million days lost from work every year in the UK alone.

- Q6** One third of migraines are preceded by a heightened sensitivity to light.
- True                      False                      Cannot say
- Q7** The passage states that it is not possible to work when suffering from a migraine.
- True                      False                      Cannot say
- Q8** Although the cause of migraines is unknown, serotonin deficiency is the most commonly held theory.
- True                      False                      Cannot say
- Q9** Triptans are a new form of prophylactic drug which are less addictive than older medications.
- True                      False                      Cannot say
- Q10** The vascular theory has been discredited.
- True                      False                      Cannot say

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Is free internet access as much a universal human right as access to clean water and healthcare? Many leading experts believe that the 80% of the world's population that is not connected to the web should have access to information through free low-bandwidth connection via mobile phones. The one fifth of the world connected to the internet, however, faces a very different problem: an insatiable appetite for bandwidth that outstrips availability. Bandwidth refers to the capacity to transfer data through a channel. Emails, for example, require less bandwidth than video. Information traffic jams result when too many users try to move information at the same time, exceeding the channel's capacity. The popularity of mobile web devices means demand for wireless channels is growing rapidly, but bandwidth supply is limited - resulting in high charges for use. With bandwidth controlled by a handful of private suppliers, bandwidth is the subject of government debate in many countries, including the United States. Bandwidth suppliers are in favour of introducing tiered pricing structures, whereby customers paying higher rates would receive faster service. Critics believe that a tiered system violates the principle of net neutrality - whereby all data is treated as equal - and would allow suppliers to profiteer from controlling a scarce resource. Suppliers argue that they are funding huge infrastructure updates - such as switching from copper wires to expensive fiberoptics - in order to improve services.

**Q11** The main argument in the passage is that internet users are not leaving enough bandwidth for 80% of the world's population.

True                      False                      Cannot say

**Q12** Access to information via the internet is a basic human right.

True                      False                      Cannot say

**Q13** The growth of mobile net device use has contributed towards the pressure on bandwidth availability.

True                      False                      Cannot say

**Q14** Proposed tiered pricing structures would charge users more for using mobile web devices.

True                      False                      Cannot say

**Q15** Proponents of net neutrality are against the prioritising of certain web traffic.

True                      False                      Cannot say

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The Dead Sea Scrolls are probably the most significant archaeological discovery of the twentieth century. More than 800 ancient documents, written on papyrus and parchment, were found in 1947 in desert caves at Qumran, near the Dead Sea. The texts mainly date from between the last century BCE and the first century CE and are comprised of three types of document: copies of books from the Hebrew Bible; apocryphal manuscripts; and documents pertaining to the beliefs and practices of a sectarian community. The former category is arguably of the greatest academic significance, as documents such as a complete copy of the Book of Isaiah enabled historians to analyse the accuracy of Bible translations. However, the secrecy of the scholars appointed by the Israeli Antiquities Authority, and their slow rate of publication, were the subject of international controversy. In 1991, the Huntington Library made photographic images of the full set of scrolls finally available to all researchers. While the scrolls' importance is indisputable, there is no consensus over the texts' origins. The traditional view is that the scrolls belonged to an ascetic Jewish sect, widely believed to be the Essenes. The Essenes' rules and doctrines are even seen by some scholars as a precursor to Christianity. A competing theory holds that the documents are sacred texts belonging to various Jewish communities, hidden in the caves for safekeeping around 68CE, during the unsuccessful Jewish Revolt against the Romans in Jerusalem.

**Q16** The traditional interpretation of the Dead Sea Scrolls is that they belonged to an early Christian sect called the Essenes.

True                      False                      Cannot say

**Q17** Academics debate whether the scrolls are the detailed accounts of one particular sect, or provide historical information about the wider Jewish people.

True                      False                      Cannot say

**Q18** Not only the origins of the Dead Sea Scrolls, but also the process of their interpretation, have been disputed.

True                      False                      Cannot say

**Q19** Some scholars believe the Essenes inhabited the desert caves at Qumran, near the Dead Sea.

True                      False                      Cannot say

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**Q20** The Dead Sea Scrolls include the oldest known copy of the Book of Isaiah.

True

False

Cannot say

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Have you ever set your mouth on fire by biting into a chilli pepper? The sensation is caused by capsaicin, a chemical compound that stimulates the mouth's pain receptors, which in turn tell the brain you've eaten something hot. The body reacts by perspiring and releasing endorphins, the "feel-good" effect of which perhaps accounts for spicy food's appeal. The first scale for measuring a chilli's heat was developed in 1912 by the chemist Wilbur Scoville. Scoville Heat Units refer to the number of times a chilli must be diluted before it is undetectable to tasters. The world's hottest chilli, the Indian naga jolokia, measures 970,000 SHU. Today a chilli's heat can be measured more accurately using high-pressure liquid chromatography, a technique that calculates the concentration of capsaicin in a solution. Humans have consumed chillies for over 8,000 years; they were first cultivated 6,000 years ago in South and Central America. In the late 15th century Christopher Columbus introduced chillies to the rest of the world via Spain, where they were called peppers because they were spicy like peppercorns. In addition to their culinary uses, chillies have long been prized for their medicinal properties. Scientific studies show that capsaicin may lower blood pressure and aid weight loss. Capsaicin has traditionally been used in tropical analgesics, however new research indicates that the compound may actually be carcinogenic.

- Q21** Although eaten around the world, chilli peppers are only indigenous to South and Central America.
- True                      False                      Cannot say
- Q22** The scale developed by Wilbur Scoville is inherently subjective.
- True                      False                      Cannot say
- Q23** The passage suggests that some people eat chilli peppers for their psychological effect as well as their spicy taste.
- True                      False                      Cannot say
- Q24** The chemical compound capsaicin sends a message to the brain that something hot has been consumed.
- True                      False                      Cannot say
- Q25** Although first consumed 6,000 years ago, chilli peppers were only introduced to Europeans in the 15th century.
- True                      False                      Cannot say

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Bioprospecting refers to searching the world's remotest areas for genetic resources with commercial value. Bioprospecting is hardly a new phenomenon - the active ingredient in aspirin, for example, comes from willow bark, whose medicinal properties were known to the ancient Greeks. In recent years, however, the ethics of the practice have been debated. Opponents, who use the term biopiracy, view it as the exploitation of developing countries' resources and indigenous medical knowledge for the developed world's profit. Pharmaceutical companies argue that drugs resulting from bioprospecting can help thousands of people. Furthermore, they are not patenting native plants, rather the techniques used to extract compounds from them. Despite these arguments, in 2005 the Indian government successfully overturned a US patent to extract an anti-fungal agent from the neem tree. Central to the debate is the question of who owns the world's biodiversity. The UN's Convention on Biological Diversity (CBD) was established in 1993 to ensure that bioprospectors obtain consent from and share any profits with the source nation. The United States, however, has not ratified the CBD. It is not only the pharmaceutical industry that has fallen foul of sovereign rights to biological resources. In 2008, Mexican farmers won an appeal to revoke a US patent on Mexican Enola beans. Similarly, following a diplomatic crisis between India and the United States, a Texan company lost the right to patent basmati rice.

- Q26** India has successfully defended its ownership of genetic material and traditional knowledge.
- True                      False                      Cannot say
- Q27** Bioprospecting is primarily carried out by the pharmaceutical and food industries.
- True                      False                      Cannot say
- Q28** Under the CBD, nations grant access to sovereign genetic material in exchange for a share in the rewards.
- True                      False                      Cannot say
- Q29** The United States government believes that the earth's biodiversity is not owned by sovereign nations.
- True                      False                      Cannot say



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**Q30** Bioprospecting is defined as the practice of obtaining plants from developing countries for commercial exploitation.

True

False

Cannot say