Verbal Test 10

Solutions 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. For each statement you must select one of the following answers:

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

False: The statement is logically false from the information 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.



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

Cannot say – while the first sentence mentions that carp are the subject of a Supreme Court lawsuit, it does not specify the exact nature of the debate.

Q2 Heavy flooding in the 1970s resulted in Asian carp proliferating in the Mississippi and Illinois Rivers.

True False Cannot say

Cannot say – the third sentence says "it is thought". This is not a proven fact.



Q3 If allowed into the Great Lakes, Asian carp would prey on native salmon. True False Cannot say False – the fourth sentence states that carp "consume only plankton" so they would not prey on native salmon. Competing with the salmon's food supply is different to preying on them. Q4 Electric barriers are not a fully effective means of carp control. True False Cannot say Cannot say –the passage tells us the US government use "electric barriers designed to repel carp" but it is impossible to say from the information given in the passage whether the carp evidence in Lake Michigan is due to the fish bypassing the electric barriers. Q5 Anticarp activists are motivated by environmental concerns rather than business interests. False True Cannot say False – the passage states that "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 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 a	re preceded by a	a heightened	sensitivity to light	

True False Cannot say

Cannot Say – the third sentence says that one third of migraines are preceded by an aura, which is not defined as a heightened sensitivity to light. However the passage does not tells us anything about a possible other third of sufferers who may or may not experience before their migraine a heightened sensitivity to light.

Q7 The passage states that it is not possible to work when suffering from a migraine.

True False Cannot say

False – while the last sentence states that 25 million work days are lost due to migraines, it does not say that it is impossible to work.



Q8	Although the commonly he		is unknown, serotor	nin deficiency is the most
	Т	rue	False	Cannot say
	•	•	han the vascular theore cannot say if it is the	ry, but the passage does most commonly held
Q9	Triptans are a older medicat		nylactic drug which a	re less addictive than
	Т	rue	False	Cannot say
	headaches. The	e passage tells us tha	drugs; they reduce pa at prophylactic drugs p ich target the pain sigr	revent the onset of
Q10	The vascular	theory has been di	scredited.	
	Т	rue	False	Cannot say
	Cannot say – it that it has been		y held view, but it does	s not necessarily follow

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

False – the passage raises two separate problems – lack of internet connection for 80% of the world and bandwidth shortage for internet users – but there is no causal relationship between the two problems.

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

True False Cannot say

Cannot say – the first two sentences raise this question, but do not provide an objective answer.



Q13	The growth of mobile net device use has contributed towards the pressure on bandwidth availability.			
	Tru	е	False	Cannot say
	True – as stated in	n the 7th sentence		
Q14	Proposed tiered web devices.	I pricing structure	es would charge use	rs more for using mobile
	Tru	e	False	Cannot say
	high charges, the	tiered pricing struc	ctures described in the	eb devices are subject to e 9th sentence does not ciated with a faster service.
Q15	Proponents of r	et neutrality are	against the prioritising	ng of certain web traffic.
	Tru	e	False	Cannot say
	True – as explained in the 9th and 10th sentences.			

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

False – the Essenes are described as an "ascetic Jewish sect". They may have been a precursor to Christianity but they themselves were an ascetic Jewish sect.

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

True – summarises the difference between the two main theories on the Dead Sea Scrolls, as described in the final three sentences.



Q18		rigins of the Dead have been dispute		the process of their
	Т	rue	False	Cannot say
			describe controversy o es describe debate ove	ver the scholars' work, er the scrolls' origins.
Q19	Some scholars near the Dead		nes inhabited the de	sert caves at Qumran,
	Т	rue	False	Cannot say
	•	•	s that the scrolls are th that the Essenes lived	ought to be Essene in in the caves.
Q20	The Dead Sea	Scrolls include the	e oldest known copy	of the Book of Isaiah.
	Т	rue	False	Cannot say
	•	suggests that the B	• •	of the Book of Isaiah and est known copies, this is

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-originating "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, but 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 for the first time, 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 indigenous only to South and Central America.

True False Cannot say

False – The sixth sentence makes reference to the hottest chilli on the SHU scale which originates from India. The presence of an Indian-originating chilli shows that chilli peppers are not only indigenous to South and Central America.

Q22 The scale developed by Wilbur Scoville was the most accurate method of measuring a chilli's heat.

True False Cannot say

True – Naturally, being the first (and therefore only) measure of a chilli's heat, it have been the most accurate measure of a chilli's heat at the time of inception, as it would have had no competition.



Q23		ests that some people t as well as their spic	e eat chilli peppers for thy taste.	neir
	True	False	Cannot say	/
	True –the third senten popularity of spicy foo		se of endorphins contribut	e to the
Q24	The chemical comp something hot has	•	s a message to the bra	in that
	True	False	Cannot say	/
	False – pain receptors	s send this message to	the brain after capsaicin i	s eaten.
Q25	Chilli peppers were	only introduced to E	uropeans in the 15th ce	ntury.
	True	False	Cannot say	/
	introduced chillies to t talks about chillies bei	he rest of the world for	late 15th century Christon the first time". The present Central America, so be.	vious sentence

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	There have been incidences where India has successfully repealed patents on its local flora.			ts
	True	False	Cannot say	
	True – the passage provide where India has repealed L	•	eem tree and basmati rice –	
Q27	Bioprospecting is primal industries.	rily carried out by the p	harmaceutical and food	
	True	False	Cannot say	
	•	•	s from the pharmaceutical and	t



passage does not tell us either way.

Q28	exchange for a share in the rewards.			
	True	False	Cannot say	
	True – summarises the a	ims of the CBD as described	in the 9th sentence.	
Q29	The United States govous owned by sovereign n	vernment believes that the eations.	earth's biodiversity is not	
	True	False	Cannot say	
		e US has not ratified the CBD genetic materials is not stated	•	
Q30	Bioprospecting is defined to countries for commercial	•	ning plants from developing	
	True	False	Cannot say	
	not mean only plants. Als	e defines it as the search for "g so, the definition given in the p which is not the same thing as		

-- End of Test --

