## ENGLISH FOR ENGINEERING

111	Provide appropriate words for the explanations below (7)	
	1. to control something, usually to use its power	
	<ol> <li>to control something, usually to use its power</li> <li>to set right the undesirable situation.</li> </ol>	
	<ol> <li>to set right the undesirable situation</li> <li>in advance (preposition)</li> </ol>	
	4. controlling a the situation rather than just responding to it	
	g a the situation rather than just responding to it	
	5. increase rapidly	
	5. increase rapidly	
	7. to buy something	
	- and conficting	
	not perfect, containing mistakes     especially most importantly.	
	The wife file Still Billing Wrong	
	12. emphasize, point out	
	a person of organization responsible for making certain that	
	companies obey particular standards	
	14 selling goods in Is	
	14. selling goods in large amounts at low prices to shops and businesses	
,	. Some of Some	
4	2. the second of the three load levels; the other two are base and peak load	
		Id
3	apparatus of the latest technological level	
4	a company owned by a parent company	
5	a plan of action chosen by a husinoss or firm	
6		
7	The second restricted a person ines	
8	o and o be regally dyfiller of stopped (adjoctive)	
O	a charge or list of charges for goods entering a country, taxes	
IV Con	Inlate the contenses of	
4	nplete the sentences using prepositions (3 p):	
1.	They are heavily involved emission trading.	
2.	Selectating capacity is accollated	
3.	a relevant agondo f	
4.	and the life get	
5.	The grid fees that the operators charge using the networks are controlled.	
6.	Unfortunately, most of the gas reserves will be used	
	Unfortunately, most of the gas reserves will be used over the next ten to twenty years.	
7.		
	Many states have set regulators.	
٥.	the customer through the	
	and overridad lilles.	
J.	It is no means certain that there will be a shortage of gos	

	10.100.70	a sudden and complete breakdown	
11. Th 12. Th 13.	ne environmental programm nis organization looks	e will be of benefit to the public consumer interests.	large.
17. We sup 18. He 19. Thi	e went great tech s is a company	terms which we do be	ny.
V The grap	h below shows the Floatricity.	consumption per capita in the United States and by reporting the main features and make co	
	14,000 12,000 10.000	United State  2005 Difference 5,300 KWH/Year	e:
Annual KWH	8,000 6,000 4,000 2,000	California	
	Unii	ita Electricity Consumption: ted States v. California	008

## ENGLISH FOR ENGINEERING - MID TERM TEST

NAME:

An emerging discipline called neuroaesthetics is seeking to bring scientific objectivity to the study of art, and has already given us a better understanding of many masterpieces. The blurred imagery of Impressionist paintings seems to stimulate the brain's amygdala, for instance. Since the amygdala plays a crucial role in our feelings, that finding might explain why many people find these pieces so moving.

Could the same approach also shed light on abstract twentieth-century pieces, from Mondrian's geometrical blocks of colour, to Pollock's seemingly haphazard arrangements of splashed paint on canvas? Sceptics believe that people claim to like such works simply because they are famous. We certainly do have an its rotated image, for example, people often choose a definitively wrong answer if they see others doing the same. It is easy to imagine that this mentality would have even more impact on a fuzzy concept like art appreciation, where there is no right or wrong answer.

Angelina Hawley-Dolan, of Boston College, Massachusetts, responded to this debate by asking volunteers to view pairs of paintings - either the creations of famous abstract artists or the doodles of infants, chimps and elephants. They then had to judge which they preferred. A third of the paintings were given no captions, while many were labelled incorrectly -volunteers might think they were viewing a chimp's messy brushstrokes when they were actually seeing an acclaimed masterpiece. In each set of trials, volunteers generally preferred the work of renowned artists, even when they believed it was by an animal or a child. It seems that the viewer can sense the artist's vision in paintings, even if they can't explain why.

Robert Pepperell, an artist based at Cardiff University, creates ambiguous works that are neither entirely abstract nor clearly representational. In one study, Pepperell and his collaborators asked volunteers to decide how'powerful'they considered an artwork to be, and whether they saw anything familiar in the piece. The longer they took to answer these questions, the more highly they rated the piece under scrutiny, and the greater their neural activity. It would seem that the brain sees these images as puzzles, and the harder it is to decipher the meaning, the more rewarding is the moment of recognition.

And what about artists such as Mondrian, whose paintings consist exclusively of horizontal and vertical lines encasing blocks of colour? Mondrian's works are deceptively simple, but eye-tracking studies confirm that they are meticulously composed, and that simply rotating a piece radically changes the way we view it. With the originals, volunteers'eyes tended to stay longer on certain places in the image, but with the altered versions they would flit across a piece more rapidly. As a result, the volunteers considered the altered versions less pleasurable when they later rated the work.

In a similar study, Oshin Vartanian of Toronto University asked volunteers to compare original paintings with ones which he had altered by moving objects around within the frame. He found that almost everyone preferred the original, whether it was a Van Gogh still life or an abstract by Miro. Vartanian also found that interpretation.

In another experiment, Alex Forsythe of the University of Liverpool analysed the visual intricacy of different pieces of art, and her results suggest that many artists use a key level of detail to please the brain. Too little and the work is boring, but too much results in a kind of 'perceptual overload', according to Forsythe. What's more, appealing pieces both abstract and representational, show signs of 'fractals' - repeated motifs recurring in different scales, fractals are common throughout nature, for example in the shapes of mountain peaks or the process such patterns.

It is also intriguing that the brain appears to process movement when we see a handwritten letter, as if we are replaying the writer's moment of creation. This has led some to wonder whether Pollock's works feel so dynamic because the brain reconstructs the energetic actions the artist used as he painted. This may be down to our brain's 'mirror neurons', which are known to mimic others' actions. The hypothesis will need to be thoroughly tested, however. It might even be the case that we could use neuroaesthetic studies to understand the longevity of some pieces of artwork. While the fashions of the time might shape what is currently popular,

works that are best adapted to our visual system may be the most likely to linger once the trends of previous generations have been forgotten.

It's still early days for the field of neuroaesthetics - and these studies are probably only a taste of what is to come. It would, however, be foolish to reduce art appreciation to a set of scientific laws. We shouldn't underestimate the importance of the style of a particular artist, their place in history and the artistic environment of their time. Abstract art offers both a challenge and the freedom to play with different interpretations. In some ways, it's not so different to science, where we are constantly looking for systems and decoding meaning so that we can view and appreciate the world in a new way.

Choose the correct letter, A, B, C or D.

1.	n the second paragraph, the writer refers to a shape-matching test in order to illustrate
A C B C C C D C	the subjective nature of art appreciation. the reliance of modern art on abstract forms. our tendency to be influenced by the opinions of others. a common problem encountered when processing visual data.
<b>2.</b> Ar	ngelina Hawley-Dolan's findings indicate that people
A C B C C C D C	mostly favour works of art which they know well. hold fixed ideas about what makes a good work of art. are often misled by their initial expectations of a work of art. have the ability to perceive the intention behind works of art.
3 Re	esults of studies involving Robert Pepperell's pieces suggest that people
A C B C C C D C	can appreciate a painting without fully understanding it. find it satisfying to work out what a painting represents. vary widely in the time they spend looking at paintings. generally prefer representational art to abstract art.
4. Wh	at do the experiments described in the fifth paragraph suggest about the paintings of Mondrian?
AC BC CC DC	They are more carefully put together than they appear.  They can be interpreted in a number of different ways.  They challenge our assumptions about shape and colour.  They are easier to appreciate than many other abstract works.  ete the summary using the list of words, A-H, below.
The dis	cipline of neuroaesthetics aims to bring scientific objectivity to the study of art. Neurological studios of
the brai	n, for example, demonstrate the impact which Impressionist paintings have on our <b>5</b>
01 6	rsythe of the University of Liverpool believes many artists give their works the precise degreewhich most appeals to the viewer's brain. She also observes that pleasing works of art intain certain repeated 7which occur frequently in the natural world.
A. inter	pretation B. complexity C. emotions

D. movements E. si	kill F. layout
G. concern H. in	mages
♥ ************************************	ents agree with the views of the writer in Reading Passage ( <b>Yes, No, Not given</b> ) Forsythe's findings contradicted previous beliefs on the function of 'fractals' in art. Certain ideas regarding the link between 'mirror neurons' and art appreciation require
10P  11	eople's taste in paintings depends entirely on the current artistic trends of the period Scientists should seek to define the precise rules which govern people's reactions to
<b>12</b> Ar which an artist worked.	rt appreciation should always involve taking into consideration the cultural context in
13 Choose the correct letter;	It is easier to find meaning in the field of science than in that of art.  A, B, C or D.
II Provide the words for th	ne following definitions (8):

	accurate delivery branch cir vehicle	aircraft enhance cuit hove non-ferrous	r insulate	signal	conductivity constellation detect robotics junction box float spectacle recycle ridge monitor ative suspended core circuit breaker
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1

any of various devices dropped by a chain, cable, or rope to thebottom of a body of water for preventing o r restricting the motion of avessel or other floating object, typically having broad, hooklike armsthat burythemselves in the bottom to provide a firm hold.

to move gently on spectacle the surface of a liquid; drift along

anything presented to the sight or view, especially something of a striking or impressive kind

any machine supported for flight in the air by buoyancy or by thedynamic action of air on its surfaces, esp ecially powered airplanes, gliders, and helicopters

the height of anything above a given planetary reference plane, especially above sea level on earth 5

to hang fluttering in the air

the outer, protective wrapping of metal, usually fine, braided steel wires, on a cable

to treat or process (used or waste materials) so as to make suitable for reuse

an electrical quantity or effect, as current, voltage, or electromagnetic waves, that can be varied in such a way as to convey information 10

to observe, record, or detect (an operation or condition) withinstruments that have no effect upon the oper

11 a piece of equipment that stops an electrical current if it becomes dangerous

- 12 to raise to a higher degree; intensify; magnify
- 13 free from error or defect; consistent with a standard, rule, or model; precise; exact
- 14 a group or configuration of ideas, feelings, characteristics, objects, etc.,that are related in some
- 15 a connection point where several cables are connected
- 16 a situation where the electrical current takes an easier path than the one intended
- 17 a circuit where the current has a choice of paths

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anchor				S			/	0	9	10	11	12
					<u> </u>			L		<u> </u>		

## III Read the text carefully and fill in the blanks with the appropriate words (12pts):

flat inserted socket blades touching rated live wider V-shaped measure outlet grounding
This 10 amp plug has two
A plug/socket configuration
IV Complete the sentences by writing the verbs in brackets (active and pasive) (10 pts).  Dear Mrs Patel,  We are delighted to inform you that you (1)(select) for a free holiday. According to our information, you(2)
a telephone survey last month, as a result of which your name (3) (enter)
your name, so you and your family (5)
week in a European destination of your choice. This offer (6) (make)
(offer) a similar deal. You(8) (ask)
to attend on any Saturday next month at the Royal Hotel, Manchester. If you (9) (interest) in

attending and taking up this offer, please (10) (detach)Yours sincerely,	_the slip below and return it to us as soon as possible.
Jack Peterson	