Обзорная панель Мои курсы <u>Английский язык для профессиональных целей. Весна. 1</u>		
<u>Unit 2. Big Data (Большие данные)</u> <u>Homework 2</u>		
Вопрос 1		
Пока нет ответа		
5алл: 5,00		
1. Match the Big Do	ata vocabulary with the definitions.	
1. Big Data		
2. data volume		
3. data velocity		
4. data variety		
5. big data analytics		
a. the process of collection other useful information	ng, organizing and analyzing large sets of data (' <u>big data</u> ') to discover patterns and	
 b. the speed of generation of data or how fast the data is generated and processed to meet the demands and the challenges which lie ahead in the path of growth and development 		
c. the size of the data which determines the value and potential of the data under consideration and whether it can actually be considered as Big Data or not		
d. a massive volume of both <u>structured</u> and unstructured <u>data</u> that is so large that it's difficult to process using traditional <u>database</u> and <u>software</u> techniques		
e. one of the aspects of Big Data that means that the category to which Big Data belongs to is also a very essential fact that needs to be known by the data analysts		

Вопрос **2** Пока

нет ответа Балл: 5,00								
2. \	2. Watch this video and fill in the gaps with the words in the table.							
	recorded	quality	digital	Internet of	data	Big	information	quantity
				things		Data		
The		(1) of	computer data	generated on Plai	net Earth is g	growing exp	onentially for n	nany reasons.
For	a start retail	lers are build	ding up vast date	abases of	(2)) customer	activity. Organi	zations
	For a start retailers are building up vast databases of (2) customer activity. Organizations working in the logistics, financial services, healthcare and many other sectors are also now capturing more							
	(3). The public use of social media is also creating vast quantities of (4) material. As							
vision recognition improves, it is additionally starting to become possible for computers to extract meaningful								
information from still images and video. As more smart objects go online, Big Data is also being generated by an expanding								
(5). And finally, several areas of scientific advancement are starting to generate and rely on vast quantities of								
	data that were until very recently almost unimaginable.							

Вопрос 3 Пока нет ответа Балл: 10,00
3. Watch the video and choose the right answer: True, False or Not Stated.
Organizations working in many sectors such as financial services, the logistics, healthcare are now capturing less and less data.
Oa. False
Ob. True
Oc. Not Stated
2. Big Data is being generated by an expanding Internet of things.
Oa. True
Ob. False
Oc. Not Stated
Storing, interlinking and processing vast quantities of digital information offers tremendous possibilities for a wide range of activities which is understood by volume.
Oa. True
Ob. False
Oc. Not Stated
4. Velocity is a characteristic of Big Data, which means the types of data that many organizations are called on to process are becoming increasingly diverse and dense.
Oa. False
Ob. True
Oc. Not Stated
5. Variety is characterized by the rate at which data is flowing into most organizations which is increasing beyond the capacity of their IT systems to store and process.
Oa. False
Ob. True
Oc. Not Stated
6. Due to the great number of issues arising in the combination of three V's organizations are trying not to ignore large quantities of valuable information.
Oa. False
Ob. True
Oc. Not Stated
7. At present, many Big Data pioneers are deploying a Hadoop ecosystem alongside their legacy IT systems in order to allow them to combine old and new data in new ways.

Oa. True
Ob. False
Oc. Not Stated
8. Many organizations are unlikely to have the resources and expertise to implement their own Hadoop solutions. Fortunately they do not have to, as cloud solutions are already available.
Oa. True
Ob. False
Oc. Not Stated
9. As Netapp explain, Big Data developments are fundamentally about creating new IT systems that are more "systems of engagement" rather than just silos for data storage.
Oa. True
Ob. False
Oc. Not Stated
10. Using Big Data, we could start to run the world and allocate resources based on what we really need, not what we blindly guess people may in the near future demand. Or in other words, the more we can know and learn about human activities, the less we will need to go on producing and transporting goods to fill up retail outlets with things that people may not actually want.
Oa. True
Ob. False
Oc. Not Stated

опрос 4	
ока	
ет ответа	
алл:	
0,00	

4. Put the words in the correct form to fill in the gaps.				
VOLUME, VELOCITY AND VARIETY				
Big Data is often characterized using the "three Vs" of volume, velocity and variety.				
Volume is Big Data's greatest challenge and as well as its greatest opportunity. This is because storing,				
interlinking and processing vast quantities of digital (1. inform) offers tremendous possibilities				
for a wide range of activities. These include predicting customer (2. behave), diagnosing				
disease, planning healthcare services, and modelling our climate. However, traditional				
compute) solutions like relational databases are increasingly not capable of handling such tasks. Most				
(4. tradition) computer hardware solutions are also not scalable to Big Data proportions.				
Big data velocity also raises a number of key issues. For a start, the rate at which data is flowing into most				
(5. organize) is increasing beyond the capacity of their IT systems to store and process. In				
(6. increase) want streaming data to be delivered to them in real time, and				
often on mobile devices. Online video, (7. locate) tracking, augmented reality and many other				
applications now rely on large quantities of such high velocity data streams, and for many companies delivering them is proving quite a challenge.				
Finally, as already highlighted, Big Data is characterised by its variety, with the types of data that many organizations are called on to process becoming increasingly diverse and dense. Gone are the days when data				
centres only had to process documents, financial (8. act), stock records, and personnel files.				
Today, photographs, audio, video, 3D models, complex simulations and location data are all being piled in to				
many a corporate data silo. Many of these Big Data sources are also almost entirely (9.				
structure), and hence not easy to categorize, let alone process, with traditional computing techniques. All of this				

(10. mean) analysis can be carried out.

data cleansing before any

Вопрос 5 Пока нет ответа Балл: 5,00		
5. Match the words and the	eir definitions.	
1. Data exhaust		
2. Augmented reality (AR)		
3. HDFS		
4. The Apache™ Hadoop(r)		
5. MapReduce		
 a. the Hadoop Distributed File Syster essential for Big Data computing. 	m (HDFS), which permits the high-bandwidth, cluster-based storage	
b. A data processing framework which	ch is the second part of Hadoop.	
c. integrates the real world and cybe	erspace.	
d. A large proportion of the data that information passing straight through	t they gather is then not processed, with a significant quantity of useful them	
e. this project develops open-source	e software for reliable, scalable, distributed computing.	
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