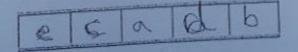


VII.	Translate the following sentences into Persian.	
Revo	Now, we are witnessing a new scientific and social revolution known as the Information sifying.	
******	***************************************	
		10
	Many manufacturers of consumer products need constantly to look for opportunities to reduce s and improve efficiency. At the same time, however, they need to constantly innovate and renew r product and service offerings.	1/20
	•••••••••••••••••••••••••••••••••••••••	
1		
A Annahaman Indonesia and Anna	Good Luck!	-
1		
-		
1		
1		
	Page 5	
		1

Composition processing models are built on the foundation of physical laws. Once the model is well posed in the mathematical equations, the next step is to examine the behavior of the model in response to changes in the process and material variables. This information can prove to be very useful to design a mold or a die for the manufacturing method or to alter the manufacturing process to create a successful part. To investigate the behavior of a composite manufacturing process in a routine manner with minimum effort, the process model can be incorporated into a computer simulation. This simulation can provide valuable and detailed information about the process and exclude false information from the process of decision making

- 3. Why do we incorporate the process model into a computer simulation?
  - a) to pose the model in the mathematical equations
  - b) to design a mold or die
  - (c) to investigate the behavior the manufacturing process in a routine manner with minimum
    - d) to examine the physical laws
- 4. The term "exclude" used in line 8 is closest in meaning to
  - a) to prevent something from continuing
  - √ b) to bar from participation or consideration
    - c) to conform
    - d) to store
- Put the following sentences in the right order to form a comprehensive paragraph. Write VI. the corresponding letters in the boxes provided.
  - a) Information alone is not enough to produce knowledge.
  - b) Knowledge builds over time in the heads of employees in the form of past decisions, processes in the organization, characteristics of products, interests of customers, and similar experiences.
  - c) We can define knowledge as "information plus know-how".
  - d) We must also understand the best way to use information to solve a problem, contribute to a product or service, or make similar contribution to the organization.
  - e) Knowledge is a strategic resource for many organizations.





## باسمه تعالي دانشگاه آزاد اسلامی واحد تهران مرکز

اداره امتحانات

سؤالات اعتجاني پايان ترم نيمسال دوم94-93

شماره صندلي: زغان: 70 دقيقه

نام و نام خانوادگی:

2.5

نام انستاد: کلیه اسانید تاریخ امتحان: 1394/3/30 پاسخ سوالات در برگه سوالات استفاده از ماشین حساب و چزوه معنوع است.

نام درس: زبان خارجی انگلیسی

تعداد صفحه سوالات: 5

خدمناً بعرات در سابت <u>stm.iauctb.ac.ir</u> اعلام خواهد شد و دانشجونان جهت عشاهده نعرات و اعتراض به این سابت مواجعه نعایشد.

## INTHENAMEOFGOD

English for the Students of Engineering Final Exam, Spring 1394

Student's Name:

Allotted Time: 70 Minutes

Match the underlined words with their synonym words in the following table.

making	impact	feat	consume	many
interpret	benefits	tools	tangible	novelties

- Falling export rates had a big influence on the country's economy.
- b)
- It is an amazing achievement to do such a difficult work. Peak
- d) It is difficult to understand these statistics. Sweep of
- The terms "mechatronic system" encompasses a myriad of devices and systems wee)
- The technology revolution, like the Industrial Revolution, has changed the economy, ereating new industries and ways of doing business.
- Modern cars do not use so much fuel.
- h) During the Industrial Revolution there were many principal innovations.
- Polymers composites have many advantages over other materials. Some first i)
- More commonly you hear mechatronic systems referred to as smart devices.

Fill in the blanks using the words given in the following table. II.

dramație	empty	trends	comprise	requires
constituents	structural	interdisciplinary	utopian	developed
a) Resin and fibers b) Materials used for c) Thermoset materials d) Making a qualific e) Mechatronic is a f) Competition in r g) We are living in information tech h) Most changes ar tasting effect on	rials are used to implied robot	glass and glass and an enormous field of engineering all s, a revolution brought of the rest of the same the true creators of the same the same the true creators of the same the	amount of data.  g over the world in on by	just a few years.  advances in  forces which have a  load.

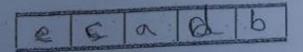
include	using the words given i	Tonowing table.	
	appliances	brake	systems
lerm	machines		
The state of the s	Secretaria de la constitución de	monitoring	injection
Today them			
roday, there are	very few mechanical de	vices that do not include e	electrical components and
ie type of compu	ervienter	or control. Therefore,	theAucora
echatronic system"	encompasses a myriad o	of devices and 55	. Increasingly,
ital circuits and micr	oprocessors are embedde	d in electromechanical dev	rices, creating much more
	l possibilities in syste		
	aircraft flight control	and navigation system, a	Costuring equipment
	d antilock\	systems, automated	manufacturing equipment
ch as robots an	d numerically-controlle	d machine tools, sma	rt kitchen and home
0-12/21/200499. SU	ch as bread machines and	washingweshim	, and even toys.
Classo the her	st word to complete each	sentence.	
V. Choose the bes	it word to comp		buinkage and mechanical
1. Additives ar	e added to a matrix to cha	nge 5	ill linkage, and inven
and optical	properties.		
a) process	ed		
Jb) process	ibility		
c) process	. No.		
d) process			
	. data provid	e much different properties	than the base resin.
2			
a) Reinfo	rcing		
b) Reinfo	rce		
√c) Reinfo d) Reinfo	rcedly		
	s ameing activ	ities cannot be carried out	any longer
3. Some parti	cular manufacturing deli-		
a) compo	Hitive		
b) to con	pete		
c) comp	etition		
d) comp			
		efficient	environments.
4. Electronic	linking of companies		
a) creati	on		
(b) creat			
a) overt	ive		Page 2
d) creat	es		
V			

	<b>V</b>	
1		
A		-
		-
22.	5. Information	
300	Information processing is handled to minimize the use of	
	<ul><li>✓ b) electronically</li><li>to minimize the use of paper.</li></ul>	
	c) electronic	
	d) electrics	
	6. Cognitive robots	76
	6. Cognitive robots sense, model, plan, and act	
	a) achievement	*
	(b) to achieve	0
	c) achievable	
0	∅ d) achieve	
	7. In their efforts to arrive at a suitable	
	between core and non-core activities.	垃
	a) to compete	
	b) competition	X
	d) competitively	
	d) competitively	1
	8. Mechatronic includes the development and of intelligent sensors,	
	actuators, microsystems, and advanced controls.  a) integrated	
	✓ b) integration	1
	c) integrate	1
	d) to integrate	
	V. Choose the best answer according to the passages.	
	Competition in many industries has intensified all over the world in just a few years. The	
	reason why this has happened is mostly because of the more sophisticated information and communications technology which has become available. This enables people and organizations to	
	overcome the barriers of physical distance. It is assumed that modern information technology will	1
13	challenge and redefine commonly accepted notions of geographic nations, companies, industries, and	1
	communities. It will make traditional borders obsolete. Thus, the world increasingly will become one	
	"global" village.	
	1. Getting more sophisticated information has intensified	1-1
	a) the technology used in companies.	-16
-	/b) the competition in many industries.	7
-	c) the power of physical barriers.	
	d) the use of traditional technologies.	
1		
	2. The term "obsolete" used in line 6 is closest in meaning to	
	a) famous	
	b) in use	
	√c) no longer in use	
	d) no longer inactive	15

II.	Fill in the blank	s using the words given in	n the following table.	
petit	include	appliances	brake	systems
-	term	machines	monitoring	injection
"med digit flexi	chatronic system's al circuits and missibility and contained.	re very few mechanical devoter	or control. Therefore,  f devices and	the
IV.	1. Additives	ssibility ss ssable		
	a) Reinfo b) Reinfo c) Reinfo d) Reinfo	orced orcedly	les cannot be carried out	any longer.
	a) comp b) to cor c) comp d) comp	npete etition etitively		
	4. Electronic a) creati (b) creat c) creat d) creat	tive	efficient en	vironments.

Composition processing models are built on the foundation of physical laws. Once the model is well posed in the mathematical equations, the next step is to examine the behavior of the model in response to changes in the process and material variables. This information can prove to be very useful to design a mold or a die for the manufacturing method or to alter the manufacturing process to create a successful part. To investigate the behavior of a composite manufacturing process in a routine manner with minimum effort, the process model can be incorporated into a computer simulation. This simulation can provide valuable and detailed information about the process and exclude false information from the process of decision making.

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  - e) Knowledge is a strategic resource for many organizations.



	5. Info	ormation proces		
	a)	electronice electronice		
	√ b)	electronically electronic		
	c)	electronic		
	d)	electrics		
	6. Cog	gnitive robots sense, model, plan, and act goals without hun achievement		
	inte	ervention model, plan, and act		- 1
	a)	achievement goals without hun	nan	
	V6)	to achieve		
	c)	achievable	1	
	1 d)	achieve		
	7 1-4			
	/. In th	heir efforts to arrive at a suitable advantage, managers diffe	rentiate	
		to and non-core activities.		_
	a)	to compete		垣
		competition	1	4
		competitive		
	d)	competitively		
		chatronic includes the development and of intelligent senso	rs,	
		nators, microsystems, and advanced controls.		
	5.55	integrated	1	
	10.50	integration		
		integrate		- 3
	a)	to integrate		
3.7	Choos	e the best answer according to the passages.		
V.				
	Compe	etition in many industries has intensified all over the world in just a few ye	ars. The	
reason	why t	this has happened is mostly because of the more sophisticated information in technology which has become available. This enables people and organize	ations to	
		1iove of physical distance II IS-assumed that modern information techno	HDQV WIII	
	1	- define commonly accepted notions of gengraphic nations, companies, thatis	tries, and	
commi	unities. 1	It will make traditional borders obsolete. Thus, the world increasingly will be	come one	
	il" villag			
		more sophisticated information has intensified		1
1.	Getting	technology used in companies.		· fer
2	a) the	competition in many industries.		1
	/b) the	power of physical barriers.		
	c) the	use of traditional technologies.		
	d) the	use of traditional technologies.		
	ALC: N	m "obsolete" used in line 6 is closest in meaning to		
2.				
	a) fam		1	
	b) in u	onger in use		
V		longer inactive		
	0) 110 1		Page 3	
			Page 3	

		AL, I
_		
Translate the follo	owing sentences into Persian.	
	sentences into Persian.	
Now, we are witne	essing a new scientific and social revolution known as	s the Information
voidion, where engine	ering specialization ironically seems to be simultaneous	ously focusing and
versifying.		
	rers of consumer products need constantly to look for	opportunities to reduce
Many manufactu	ency. At the same time, however, they need to constant	itly innovate and renew
heir product and service	e offerings.	l.
A. C.		Good Luck!
1		
. 1		
1.		
	* 4	