Kafrelsheikh University		Semester: 2nd Semester
Mechanical Engineering		Final Examination
Dept. Mechanical Engineering		Date: June 3rd, 2018
Year: Preparatory	جامعة علقر الشيخ ١٦٠	Time allowed: 2 hour
inst.: Assoc. Prof. M. Abou Al-Sood	A stretchefich University	
Assist. Prof. A. Saeed	•	Full Mark: 45
Subject: Techn	nical English Language	(HUM0201)
Quest	ions and Answers Bool	klet
signature of the side and	Part (1)- Marks (22.5/4	5)
(a) This exam measures ILOs no.: a	10, b4, b3, b11, c1, and d	3
(b) No. of pages: 4 - No. of questions	s: 9.	
(c) This is a close book exam.	102.5%	1 1 11 11 11 11 16
(d) Clear and neat writing and answ	vers are required. In gen	eral, marks will not be assigned to
decipher.	e unreasonable (in the o	pinion of the instructor) effort to
(e) Ask for clarification if any quest	ion statement is not clea	r to vou.
(f) The weight of each problem is in		Notes and the second of the se
(g) The exam will be marked out of		ints. Each point weights (0.36)
mark. So, there is a bonus of 9.7		
Match the GPS applications (1-6)	to the descriptions (a-	f) (5 Points)
. avionic equipment a. n	avigation and safety at se	a de la companya de l
	etting out position and le	
	napping surfaces features	
topographical surveying d. a	pplications in mining and	l the oil industry
	ighway navigation and v	
. maritime applications f	ir traffic control, navigati	on and autopilot systems
. Match the verbs (1-9) to definition	ons (a-i) (9 Points)	1000
	ied (objects, over a dista	nce)
	something firmly / bear	41
	ib down	the weight 9
	vided with energy / move	ed by a force
5. Attached e. joini	ing	
The state of the s	en / have movement dire	ected
	1	and the state of t
7. controlled g fixed		
8. powered h clim	ıb up	
8. powered h clim	ib up ′ make something go up	le what are the life origin est :
8. powered h clim		. 1420 Mgm o o il ono cara tatvo et
8. powered h clim 9. descend i lift /	make something go up	e isse nigre e di en cui sulla est J
8. powered h clim 9. descend i lift /	make something go up	n using the correct form of the
8. powered h clim 9. descend i lift /	make something go up	n using the correct form of the
8. powered h clim 9. descend i lift / A. Complete the following extractions words in the box	make something go up	o case aromigriça alem le
8. powered h clim 9. descend i lift / A. Complete the following extract words in the box flush with groove	make something go up	ridge set back
8. powered h clim 9. descend i lift / A. Complete the following extract words in the box flush with groove 1there is a circular slot	make something go up	ridge set back
8. powered h clim 9. descend i lift / A. Complete the following extract words in the box flush with groove	make something go up	o case aromgripa alpre de

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		surrounding of	ace, the circular casing	. So rather tha ar area that re	n being ceives the p	the from	
	В.		0.0	ire bing simul	aneously.		7
	ī	Complete the fo	llowing defin	itions using (the words	in the box	
		abrasive wheel					ed blade
		1. A 2. A	makes straig	ht cuts by app	lying pressi	ure to shear the n	naterial
		2. A 3. A	makes holes	by applying p	ressure to	shear the materia	1
		4. A	is the width	of the same	or milling		
		5. A	Cuts a circula	r nices to	OVO on into	at ann - C	,
		6. A	has a hard, ro	ough surface for	or cutting o	ct core of materia r grinding	d 6
	C.						
		What does the a	bbreviation	UHP waterjet	stand for?	•	
	D.						
	υ.	Complete the assembled by u	following denderlining th	escriptions (e correct wo	of how th	ne garden chai	r airship was
		1. A quantity of	helium gas wa	as contained	/ suspend	led inside each h	alloon
		2. A tube was in	iserted /pro	jected inside	the openin	g of the balloons	to inflate thrm.
		3. The balloons	were situate	d / projecte	d over the c	chair, in a large cl	uster.
		4. The chair wa	s contained	/ suspended	under the	balloons by ror	es.
		5. Arm rests, o	contained /	located bes	ide the pi	lot, at each side	е,
		6. The landing	old him in pla		olecting	below the con	.
			simply, of the		ojecung	below tile sea	7
		7. The pilot wa		_	d underne	ath the balloon	
		,—	t was low do	1.70 1.770			
11000000				8			
4.	State	what are the five	engineering	enemies:			
		1.					
		2. 3.					-
		4.					5
		5.		70.00 VASS (1940)	7.		
		h engineering en	emies can be	the problem	atic for eac	ch of the followi	ng car parts?
	1. 2.	Chassis	Ĺ		,		<u></u>
		Suspension Wings	(j		
	4.	Engine	È)		9
	5.	Brakes	(Ì		
-	6.	Cooling system	(
[2/4	4]	With	our best wishes	Assoc		r Abou Al-Sood <i>ft</i> iners' Committee	. M. Abou Al-Bood £. Committee

		8. Ty	earbox and clut rres its and bolts	tch	())			
5.	Con in b	npleto	e more extrac	ts from	the tal	k i	using the corre	ct from	a verb i	n box 1 a	nd a word
		1. Belov	v clog cut	leak	run	w	ear work	2. loose	e up	out	
	1.	the	radiator probl	em didi	n't cause	e tl	he engine to	ich resi	lted in c	oolant lie	uid
	2.	a nı	ut		on a	a r	adiator pipe, wh	iicii i ese	inca in o		
	3.	the	endine				on one of the co	orners.		1	1-10
	4	hes	witched off he	fore the	ecvetem	۱h	ad	122	of co	olant.	12
	5.	the	openings in th	e side p	ods alw	ay	/s		_ with t	111 6	
_	0.	The ty	res weren t ci	ose to _			'''				
6.	Mat	ch th	e verbs (1-10) to the	definit	'n	ns (a-j) (10 Poi	nts)			
٠.		1. ad					ned maintance				
			ain				or dameged pae	ert			
		3. dis	sconnect		ck carefi						10
		4. dis	smantle	d. emp	ty a liqu						
			amine				i to fill a tank to			level	
							y by making sm		ge		
		7. re	connect	g. take	apart a	SS	embled compon	ents	1 1	- 14-	
		8. se	rvice	h. app	ly the co	rr	ect torque, for ex nnection again	xample	to loose t	oots	20
		9. tig	hten	i. esta	iblish a c	:01	inection again plate from a circ	uit omz n	otwoork		
		10. 10	p up	j. rem	nobe of	120	orace ironi a circ	uit of v ii	ietwoei k	8	
-	Mat	ch the	words (1-8) t	o the d	efinition	C	a-h)				
/.	Mat						burns the skin				
			CO2 detector				Contact (with a	danger)			à.
			exposure				sourcs of ignitio	0 ,			
		4.	irretate				small area with		ilation		8
		5.	toxic		е		measure carbon	dixoide	3		
		6.	corresive		f.		poisonous				
			flamable	701	g		causes skin to re			•	
		8.	naked flames	/ sparl	ks h		catches fire easi	lly			
8.	A. W	Vhich	of the followin	g phras	es give 1	m	ore emphasis th	an it's in	nportant	, and whi	ch give <u>less</u> ?
		1.	it's crucial	()	3. It's prefe	rable	()	
		2.	it's essential	()	4. It's vital		Ì	j	
	B. Ac	cordi	ng to what you	ı studie	d in Unit	t #	7, what is PPE s	tands fo	r?		
											6
[3/4	IJ		With	our best	wishes		Associt. Prof.				Abou Al-Bood
								Examine	rs' Comm	ittee	£. Committee

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9. Complete the table below with the types of personal protective equipment:

,	1		Protective equi	Pinene
dust mask	ear plugs	ear defenders Safety boots/shoes	gauntlets	goggles
overalls	respirator		safety harness	welding mask

Items or Personal Protective Equipment	Description
1.	inserted in the ears to protect the hearing
2.	Protect the hearing by covering the ears - can also be attached to the sides of hardhat
3.	Have steel toe caps and reinforced soles
4.	Has dark glass to protect the eyes from bright flashes of light
5.	filters solid particles from the air
6.	Gas mask - filters gas particles from the air
7.	Prevents the wearer from falling
8.	another general term for safety glasses
9.	For covering the body, arms and legs
10.	Long gloves with extended up the arms

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Kafrelshiekh University Faculty of Engineering Final Second Term Exam Preparatory Year Name:



Date: June5, 2018
Technical Language
Time allowed: two hours
Full Mark: 45 marks
Academic Number:

Answer All the Questions:

Question No. one (5marks):

Match the following verbs with the correct definition.

1.	Feasibility study	1	Building or installation which is built, supplied, or installed complete and ready to operate
2.	Site investigation	b.	Activities carried out after the project to ensure the problems are solved
3.	maintenance	C.	details plan of proposed structures
4.	soil mechanics		dimensions and measurements
5.	specification	e.	extensive investigation to evaluate the load bearing qualities and stability of the ground
6.	Technical drawing	f.	Investigation to assess both financial and engineering aspects of a project
7.	Commission a	g.	Offer of a bid for engineering contract
8.	costing system	h.	procedure to monitor the costs of a project so that management can be get information on development
9.	tender	i.	study the proposed location to assess geology the area
THE REAL PROPERTY.	turnkey project	j.	to order a plan to be carried out

(1-), (2-), (3-), (4-), (5-), (6-), (7-), (8-), (9-), (10-)

Question No. two (5 marks):

Complete the following sentences with a form of the word	rd in	brackets
--	-------	----------

- 1. When working in this area, please wear -----clothing (protect).
- 2. Don't pour used chemicals into the drains as they will cause ----- (contaminate).
- 3. Heating this liquid may cause an ----- (explode).
- 4. These chemicals must be kept in a locked cupboard because they are-----(harm).
- 5. While they repair the roof, we will close this department as a ----- measure (precaution).
- 6. ----health is one part of Health and Safety (occupation).

7. Working in a noisy factory without ear protectors is aactivity (danger).
8. Petrol and oil arechemicals (flame).
9. Make sure the containers are closed (tight).
10. Make sure you are wearing breathing equipment before starting(fume).
Question No. three (6 marks):
Answer the following questions.
1. What are the properties of heat radiation waves?
2. Why do architects depend on structural engineers?
3. what is meant by "sanitary engineering"?
4. What is the significance of the code of ethics in the engineering profession?
5. Mention three different machines that generate power.
6. Specify the job of the mechanical engineer in automotive industry and aerospace
industry.
Question No. four (5 marks):
Choose the correct word or phrase in each of the following.
1. Every energy cycle involves a (transform, transport, transfer) of heat.

- Engineers shall uphold and advance (integration, honesty, goodness, commitment), honor and (persistence, perseverance, quickness, understanding, high rank) of the engineering profession..
- 3. An ideal black body would (reflect, emit, absorb) all the heat falling on it.
- 4. heat transfer by conduction through a solid by virtue of (temperature difference, pressure difference, motion of the surrounding air)
- 5. Heat produced by current flow (increases, decreases, has no influence on) the efficiency of electrical machines.
- 6. In engineering drawing, the graphic language is (indispensable, inadequate, inaccurate).
- 7. The ellipse is a (drawing instrument, measuring instrument, mathematical curve).
- 8. Codes of ethic and their acceptance by profession will (finally, quickly, necessarily, as a matter of fact) determine the public's confidence and trust in the engineering profession.
- 9. If you transfer a file a remote computer to your computer, you (download, upload, run)
- 10. breach: (involvement, engagement, infringement, adjustment).

Question No. five (5 marks):

Read the following sentence and answer the required between the brackets:

- 1. Polythene sheets are laid over the wet concrete. This prevents the concrete from drying out too quickly. (link the two sentences using the final-ing clause)
- 2. The first real road builders in Britain was the Romans. (Find the mistake and correct it)

- 3. This empirical formula is deficient (for, at, with, in, on, from, about), the effect of external disturbance. (select the correct word).
- 4. The petrol is mixed with air and injected into the cylinder,.....a spray. (Use of the word "as" to complete the statement)
- 5. Rearrange the letters of six sources of energy:

1. uns 2.fbielou 3. Dwni 4. Piumutoln 5. Weva 6. peumroetl

Question No. six (2 marks):

Translate into Arabic:

Computer Graphic is now extensively used in engineering work. In your career as engineer, you may be involved in the design processes of electric machines or electronic control systems, and these are greatly facilitated through computer graphics. You may also need graphical simulation and animation to model dynamical processes, or to analyze interactions and identify conflicts among system components.

Other applications of a computer graphics include surveying and mapping, structural engineering (CAD/CAM). In surveying and mapping, computer programs allow the engineer to go from field data to finished contour maps in a single step.