


Kafrelsheikh University		Semester: 2 <sup>nd</sup> Semester
Faculty of Engineering		Retaken Evaluation
Mechanical Engineering		Date: May 23 <sup>rd</sup> , 2021
Preparatory Year		Due date: May 27 <sup>th</sup> , 2021
Inst. : Assoc. Prof. M. Abou Al-Sood Assist. Prof. A. H. Saeed		Result: Pass or Fail
<b>Subject: Technical English Language (HUM0201)</b>		

- أعداد البحث يكون على نموذج البحث المعد لذلك من قبل ادارة الكلية والموجود على موقع أبحاث الكلية.
- تم اعداد البحث ببرنامج WORD ويكون نوع الخط Time New Roman مقاس 14 والمسافة بين الخطوط 1.5
- يتم ارسال البحث بصيغة PDF على ان يكمن اسم الملف هو اسم الطالب ثلاثيا متبوعا رقم الجلوس واسم المادة. كمثال (ماهر\_مصطفى\_حامد\_222\_ميكانيكاً).
- يخص لكل مجموعة فصول نموذج منفصل يكتب الطالب فيه البحث المطلوب ولا يسمح للطالب تقديم البحث في موضوع النموذج المحدد لفصله طبقا لجدول توزيع النماذج المعلن. وإذا قدم الطالب بحثا في النموذج المخصص لفصله سوف يتم رفض البحث ويعتبر الطالب راسب في المادة.
- إذا ثبت اقتباس أو نقل نسبة كبيرة من البحث نصا من طالب آخر أو من كتاب أو من أحد المقالات أو من موقع على شبكة المعلومات يتم رفض البحث ويعتبر الطالب راسب في المادة . وعلى الطالب عند استعانه بمصادر ينقل منها بعض النصوص أن يذكر المصدر تفصيلا بين أقواس
- يمكن للطالب الاستعانة بالكتاب المقرر كأحد المصادر ولكن لا يكون هو المصدر الوحيد ويطبق على الكتاب المقرر نفس الضوابط السابق ذكرها من حيث ألا تكون نسبة الاقتباس كبيرة ومن حيث ذكر المصدر عند الاقتباس.
- غير مسموح بنقل الأمثلة المحلولة في كتاب المادة لتنفيذ البحث المطلوب.
- الطلاب الباقيون للاعادة ليس لهم اجاث واذا قدم احدهم بحث فسيتم اتخاذ الإجراء القانوني معه.

## Make a Report in the Following

- Referring to #6 of the notes (Professional English for Engineering Students) under the title: **Technical development**, for each of the following item write at least two pages. You must use the technical vocabulary you learned in this unit. Also you may use statements and paragraphs mentioned in this unit after re-phrasing them.
  - Technical Requirements
  - Suggesting Ideas and Solutions
  - Assessing Feasibility
  - Improvements and Redesigns
- Write about at least 10 lines in the following topic of Renewable energy
- Match the part of the car with its function (from A to B ).

A	B
1) steering wheel	a) holds brake fluid
2) exhaust manifold	b) provides the power
3) radiator	c) stores electricity
4) fuel tank	d) ensures that the rear wheels turn at a different speed to each other when a car corners
5) brake line	e) produces electricity
6) silencer / muffler	f) sends an electric current to the spark plugs
7) battery	g) carries waste gases to the exhaust pipe
8) clutch	h) makes the car go faster when it is pressed
9) differential	i) used by the driver to turn the car
10) engine	j) holds fuel
11) brake cylinder	k) cools water from the engine
12) accelerator	l) connects the brake cylinder to the brakes
13) distributor	m) reduces the exhaust noise
14) alternator	n) disconnects the engine from the gearbox while the gears are changed

- Choose the correct word or phrase in each of the following.
  - Every energy cycle involves a (transform, transport, transfer ) of heat .
  - Engineers shall uphold and advance (integration, honesty, goodness, commitment), honour and (persistence, perseverance, quickness, understanding, high rank) of the engineering profession..

- (c) An ideal black body would ( reflect, emit, absorb ) all the heat falling on it.
- (d) Heat transfer by conduction through a solid by virtue of ( temperature difference, pressure difference, motion of the surrounding air )
- (e) Heat produced by current flow ( increases, decreases, has no influence on the efficiency of electrical machines )

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

- (a) A tire that has too little air pressure will ( affect ) your ability to drive in a straight line. ( rearrange the characters of the word )
- (b) The computer hardware is very difficult to change. Software can easily be changed. ( link the two sentences using contrast word )
- (c) Copper is nearly always used in electric wire. It has very low resistance to current flow. ( link the two sentences using the final-ing clause )
- (d) Electrons are the smallest and lightest particles in an atom. [Select the type of sentence [1. Main clause ( ) 2. Subordinate clause ( ) 3. Phrase ( ) ]
- (e) Students in fluid mechanics course calculate the properties of fluids , and then they use those calculations to design fluid power system. (Indicate the compound sentence is punctuated correct). . Correct ( ) . Incorrect ( )
- (f) The experimental results are consistent ( for, at, with, in, on, from, about) the theoretical analysis. ( select the correct word).

6. Answer the flowing questions. (8 marks)

- 1) Mention three different machines that generate power.
- 2) Specify the job of soil and structural engineers.
- 3) Why are the laws of heat transfer important to engineer?
- 4) Why the energy topic is closely associated with mechanical engineer?
- 5) What is the significance of the code of ethics in the engineering profession?

7. (A) Translate into Arabic : (5 marks)

Electronic engineering is a professional discipline that deals with the behaviour and effects of electrons and with electronic devices, systems, equipment. The term now also covers a large part of electrical engineering degree courses as studied at most European universities.