



University of Technology
Department of Applied Sciences
Final Examination 2015/2016



Subject:
Branch: Applied physics branch
Examiner: asst.Lec jabbar H. Khulef

Class: 1 year
Time: 3 hour
Date: 2016

درجة كل سؤال (١٢.٥)

أجب عن اربعة أسئلة فقط

س١ : في الجدول المبين ادناه استخدم الدوال الصحيحة لاكمال البيانات في الخلايا الفارغه وذلك بكتابة الصيغة العامه للدوال وبما يتلائم مع عناوين الخلايا المبينه في الجدول وبشكل دقيق .

J	I	H	G	F	E	D	C	B	A	
نتيجة الطالب	أقل قيمه	أكبر قيمه	المتوسط	المجموع	مشروع	كيمياء	فيزياء	رياضيات	الاسم	١
					91	88	90	92	علي	٢
					80	55	60	70	ايمان	٣
					50	40	55	65	احمد	٤

س٢ : أذكر خطوات تنفيذ الاوامر التالية

- ١- اضافة حركة لنص معين داخل الشريحة في برنامج power point
- ٢- عمل اطار (Border) في ورقة مستند Word
- ٣- ترتيب اعداد عشوائية في جدول بصورة تصاعديّة او تنازليّة
- ٤- ترقيم الصفحات في مستند Word
- ٥- تغيير نص او جملة في مستند Word
- ٦- خلق مجلد جديد على سطح المكتب

س٣ : أملأ الفراغات التالية

- ١- الامتداد الخاص بملفات Word هو
- ٢- يستخدم ايعاز لغرض ترتيب الايقونات على سطح المكتب
- ٣- يستخدم ايعاز لغرض اعادة تشغيل الحاسوب من جديد فيما لو حدث اي خلل في التنفيذ.
- ٤- يتم تغيير نوع الخط عن طريق تبويب وهذا اليعاز ممكن ان نجده في شريط ادوات
- ٥- التبويب يحتوي على امر ادوات العلامات المانيّة
- ٦- لغرض تحديد كلمة من النص يستخدم ايعاز



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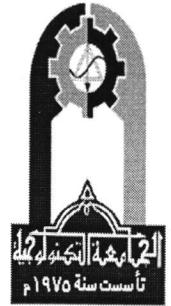
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س٤: ضمن ايعازات MS-DOS اذكر نوع وغرض كل من الايعازات التالية
١- Clear Screen -٢ External -٣ Date -٤ TYPE -٥ Tree -٦ (REN)

س٥: عند الضغط بالمفتاح الايمن للماوس على اي مكان فارغ على شريط المهام سوف يؤدي الى ظهور قائمة تتضمن عدد من الأوامر اذكرها مع توضيح عمل كل منها

type فضيفتها نسخ
نوع

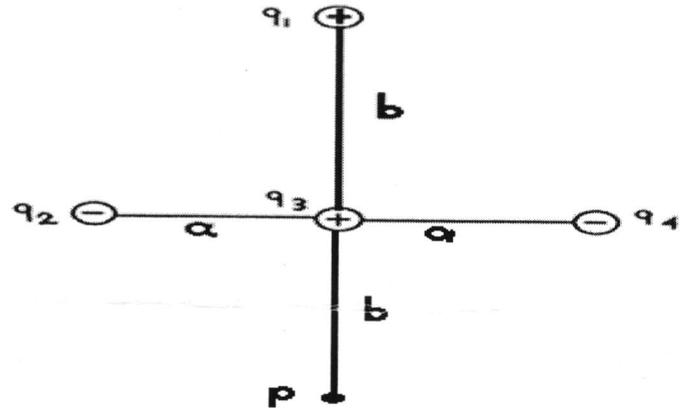


Subject: الكهربائية والمغناطيسية
Branch: الفيزياء التطبيقية
Examiner: أم بان خالد

Class: الأولى
Time: ثلاث ساعات
Date:

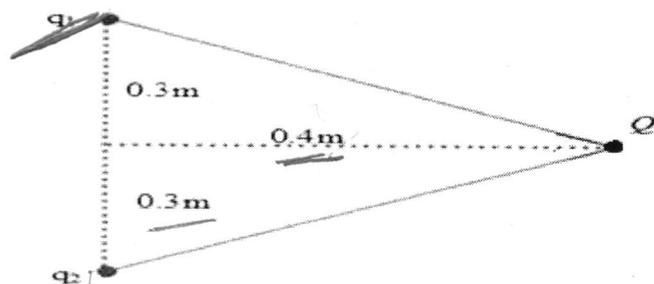
NOTE / Answer Four Question

1- Calculate the value of the electric Potential and the Potential energy point charge p (1C) when $a = 2$ cm, $b = 1$ cm, $-q = 4$ C, $+q = 2$ C?

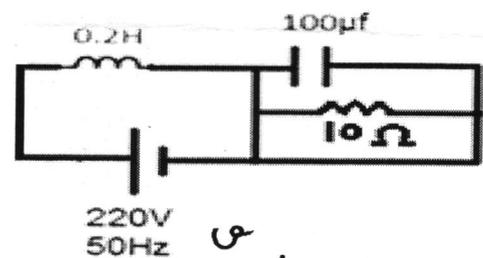


2- An insulating sphere is 8cm in diameter, and carries a +5C charge uniformly distributed throughout its interior volume. 1- Calculate the charge enclosed by a concentric spherical surface with the following radii: (a) $r=2$ cm and (b) $r=6$ cm. 2- How will your answers change if we use A long straight metal rod has a same radius with a charge per unit length of 10C/m. ?

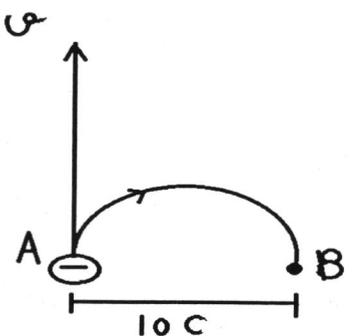
3- In figure, two equal positive charges $q=2$ C interact with a third charge $Q=4$ C. Find the resultant force on Q ?



4- For the circuit show in this figure find Impedance, current and voltage across R , L , C ?



5- an electron at point A in figure below has a speed v of 10^7 m/s find (a) the magnetic field that will cause the electron to follow the semi circular path from A to B, (b) the time required for the electron to move from A to B, (c) the angular velocity, (d) the frequency?



Good Luck



University of Technology
Department of Applied Sciences
Final Examination 2015/2016



Subject : Classical Mechanics
Branch : Physics
Examiner : L. Ammar M.J.

Class : 1 year
Time : 3 hours
Date : 6/9/2016

Notes: Chose only Four questions

Q1/ An object does free fall motion. It hits the ground after 4 seconds. Calculate the velocity of the object after 3 seconds and before it hits the ground. What can be the height it is thrown?

Q2/ An object move under below expression. Calculate the velocity of the object and the acceleration from the rest and after 1, 3, 5 seconds.

$$x(t) = 4t^3 + 2t^2 + 5$$

Q3/

A plane has a takeoff and requires 1365 m to reach speed of 88.3 m/s. Determine the acceleration of the plane and the time required to reach this speed.

Q4/ A car have a coefficient of friction between the ground and its tires of (0.85). What is the mass of the car if it takes (9620N) of force to make it slide along the ground?

Q5/ Two vectors $R = (3, -3, 1)$ and $Q = (4, 9, 2)$, find:

- The magnitude and angle between R & Q.
- Find the cross products using matrix method.

Good Luck



University of Technology
Department of Applied Sciences
Branch of Applied Physics



A

Branch: Applied Physics
Subject: English
Examiner: Sadeq H.Lafta

2015-2016

Class : 1st year
Time : 3 hr
Date :

Answer only four questions

Q1) (17.5 degree)

A) Choose the correct word or phrase: (7.5 degree)

- 1- I am from Venice, Italy. ----- is a beautiful city. (He/ She/ It/ It's)
- 2- They ----- in Europe for two weeks. (was/ are/ were/ is)
- 3- ----- to go with me to concert on Friday? (Would you like/ Do you like/ Like)
- 4- How much are ----- jeans? (that, those, this)
- 5- I am going to the stationary to get some ----- . (food/ birthday cards/ coffee)

B) Answer all of the following questions: (10 degree)

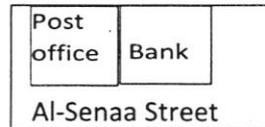
- 1- Complete the sentence with appropriate *tenses*: Edward ----- (wants *want*) to be a manager. ----- (studies *study*) business.
- 2- Write (a) or (an) in the correct place: She is architect. She works for large company. ied
- 3- Write each of (on/ at/with) in its correct place: I go jogging 7:00. I go out classmate. I go bicycling weekend.
- 4- Which word for females: niece/ son/ husband.
- 5- Compare using (good): I think that shirt is -----this purple one.

Q2) Answer all of the questions. (17.5 degree)

- 1- Give the plurals of: days, boxes, knives, countries, buses (5 degree)
- 2- Join the words in field 1 with word in field 2: **field1:** gas/ internet/ post/ travel / sport.
field2: café/ agency/ office/ station / club. (5 degree)
- 3- Arrange the quantifiers from the most to the least: many/ few/ some/ nearly all. (4 degree)
- 4- Describe yourself. How old are you? What do you look like? What are you wearing today? (3.5 degree)

Q3) Answer (A) and (B) branches. (17.5 degree)

A) Answer all of the following questions.: (10 degree)



- 1- Where is the nearest bank? Use **the adjacent box**
- 2- Which do you like better, team sports or individual sports?
- 3- Which films are funnier, horror films or comedies? Use **your own information**
- 4- Do not response to the invitation: **Do you want to go with me to the soccer game tonight?**
- 5- Ask by **how often** for the following answer: **I do not exercise very often at all.**

B) Answer all of the following questions.: (7.5 degree)

- 6- Rewrite the sentence using the word (**love**): **I think horror films are great.**
- 7- Rewrite the sentence using (**hardly ever**): **I do not watch TV very much.**
- 8- Answer the question: **How long do you spend in the pool?**
- 9- What do people call you?
- 10- DO you like pizza? Use (**a lot**)

Q4) Read the passage: (17.5 degree)

We went to Thailand for our summer **vacation** last year. It was our first trip to Asia. We spent a **week** in Bangkok and did something different every day. We went to the floating market very early one morning. We did not buy anything there, we just looked. Another day, we went to beach. It was interesting. We also went on the river trip somewhere outside Bangkok, then we got a river taxi to the floating market. We also went to two historic cities, "Ayuthaya and Sukhothia". The best thing about the trip was the food. The next time we have friends over for dinner, I am going to cook Thai food.

Answer the following **seven** question:

- 1— How long they stayed in Bangkok? 2— How many places did they visit in Thailand?
- 3— Which thing that they liked better than others? 4— Which was more interesting, the beach trip or the river trip?
- 5— Give a word has the same meaning to the word "vacation". 6— Does the river taxi needs a street? Why?
- 7— What does the Ayuthaya and Sukhothia represent?

Q5) Write a paragraph of 70 word about your neighborhood, give a suitable title does not contain the word "neighborhood".

(17.5 degree)

GOOD LUCK