

تم تحميل هذا الملف من موقع المناهج الإماراتية



الهيكل الوزاري الجديد المعدل المسار المتقدم الخطة C-102

موقع المناهج ← المناهج الإماراتية ← الصف الثاني عشر المتقدم ← فيزياء ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 08:52:40 2024-11-07

ملفات اكتب للمعلم اكتب للطالب الاختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي للمدرس

المزيد من مادة
فيزياء:

التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الثاني عشر المتقدم والمادة فيزياء في الفصل الأول

مراجعة القسم الالكتروني الاختياري وفق الهيكل الوزاري

1

حل أسئلة الامتحان النهائي القسم الالكتروني

2

ملزمة شرح وتدرجات الوحدة الرابعة Capacitors المكثفات

3

أسئلة مراجعة نهاية الفصل وفق الهيكل الوزاري الخطة 102A-M

4

أسئلة الوحدة الثانية Electric Field The وفق الهيكل الوزاري الخطة 102-C

5

Academic Year	2024/2025
اسم السنة الدراسية	2024/2025
Term	1
الترم	1
Subject	Physics C 102
المادة	C 102 الفيزياء
Grade	12
الصف	12
Stream	Advanced
النظام	المتقدم
<p>Order of Electronic Questions: Death Ass</p> <p>ترتيب الأسئلة الإلكترونية: امتحان الموت</p>	
Mark per Question	4
النقطة لكل سؤال	4
Number of Free Response Questions (Paper)	5
عدد الأسئلة الحرة (ورقة)	5
Mark per Question	8
النقطة لكل سؤال	8
Type of All Questions	Multiple Choice & Free Response Questions
نوع الأسئلة	أسئلة اختيار من متعدد وأسئلة حرة
Maximum Overall Grade	100
الدرجة القصوى الإجمالي	100
Exam Duration	150 minutes
مدة الامتحان	150 دقيقة
Mode of Implementation	Death Asses & Paper Part
طريقة التنفيذ	امتحان الموت وجزء الورق
Calculator	Allowed
حاسبة	مسموح

Question Number	Question Text	Reference to the Problem-Free Items (Right Answer)	
		Location/Reference	Page/Number
1	Solve problems related to how charge is conserved. Show that charge is conserved. Solve problems related to how charge is quantized.	As mentioned in the book	3, 4, & 6
2	Distinguish between conductors, nonconductors (insulators), semiconductors, and superconductors.	As mentioned in the book	6 & 7
3	Describe how to charging of an object. Demonstrate knowledge of charging effects and the properties of electrostatic charge and differentiate between conductors and insulators.	As mentioned in the book	8 & 9
4	Apply Coulomb's law to relate the magnitude of the electrostatic force, the charge magnitudes of the pair of interacting particles, and the separation between them.	EXAMPLE 1.2 EXAMPLE 1.3 SOLVED PROBLEM 1.1 EXERCISES 1.1 & 1.2 p. 25	30, 31, 32, 33 & 34
5	Solve problems involving general charge distribution and the electric field. Develop a tool, sketches, descriptive text or presentation to show the morphology of electric field lines of a single or multiple charge system with positive and/or negative charges. Find for a uniform distribution of charge, the linear charge density λ for charge along a line, the surface charge density σ for charge on a surface, and the volume charge density ρ for charge on a volume.	As mentioned in the book	27, 28, 29 & 30 34
6	Find for a uniform distribution of charge, the linear charge density λ for charge along a line, the surface charge density σ for charge on a surface, and the volume charge density ρ for charge on a volume.	As mentioned in the book	34
7	Apply the relationship between the electric field E and the electric force F and the charge q .	As mentioned in the book	37, 38 & 39
8	Solve problems on electric flux. Define the electric flux through a surface as the dot product between the electric field vector and the area vector at each point of that surface and express that in an equation.	FIGURE 2.22 FIGURE 2.23	42
9	Apply the relationship between the charge density and the electric field magnitude E , and also specify the direction of the field for positive or a line, infinite or large, nonconducting/conducting surface with a uniform charge density.	As mentioned in the book	47, 48 & 49
10	Solve problems involving electric potential energy.	As mentioned in the book FIGURE 3.2	60 & 61
11	Develop a method such as schematic representations to compare the equipotential surfaces due to a point charge, two identical charges, and two different charges.	FIGURE 3.17 FIGURE 3.18 FIGURE 3.19	67, 68 & 69
12	Relate the component of the electric field along a certain direction to the change in the electric potential along that direction ($E_x = -dV/dx$) and use this relation to solve problems.	Concept Check 3.7	77
13	Calculate the potential energy of a system of pair of charged particles.	FIGURE 3.30	79 & 80
14	Identify the symbolically the symbols of common circuit elements of common circuit elements.	FIGURE 4.8	90
15	Solve problems on parallel plate capacitor.	EXAMPLE 4.1	91, 92
<p>Important notes: Please pay attention to specifying the units of measurement when solving problems, as grades will be calculated based on the units. Drawing relationships between variables, identifying and drawing the best fit line connecting the points, and finding values from the graph.</p> <p>ملاحظة هامة: يرجى ضرورة الاهتمام بتحديد وحدات القياس عند حل المسائل، حيث يحدد درجات على مدى ترتيب العلية على رسم العلاقات بين المتغيرات وتحديد الخلل عند عمل بين النقاط وتحديد القيم من الرسم البياني.</p>			
101	A: Develop a tool, equation or sketch, to obtain the resultant electric force exerted on a point charge by a nearby system of charges using the superposition principle. B:	EXERCISES 1.83 to 125	30, 31, & 32
102	A: Develop a tool, equation or sketch, to obtain the resultant electric field strength at a point generated by a nearby system of point charges using the superposition principle. Solve problems related to the electric field due to several point charges. B:	As mentioned in the book	30 & 31
103	A: Define the electric flux through a surface as the dot product between the electric field vector and the area vector at each point of that surface and express that in an equation (Solve problems on electric flux). B: Prove that the electric flux through a closed surface is given by the net charge inside the surface divided by the permittivity of the medium, and write the Gauss's law in its integral form. (Apply Gauss' law to relate the net flux through a closed surface (real or imaginary) to the net charge enclosed by the surface).	EXAMPLE 2.5	43
104	A: Develop a mathematical equation to describe the electric potential of a point charge or many point charges or distributions of different charges. B:	As mentioned in the book FIGURE 3.21	70 & 71 75 & 80
105	A: Define the electric capacitance of a conductor as the quotient of division of the electric charge on the conductor by the electric potential on the conductor, and express that in an equation. B: Apply the relationship between the magnitude of charge q on either plate of a capacitor, the potential difference V across the capacitor, and the capacitance C of the capacitor.	As mentioned in the book	88 & 89
<p>1- Questions might appear in a different order in the actual exam.</p> <p>2- قد تظهر الأسئلة بأترتيب مختلف في الامتحان الفعلي.</p> <p>3- As it appears in the textbook, LMS, and scheme of work (SOW).</p> <p>4- كما يوزن في كتاب الطالب (LMS) وبرنامج العمل (SOW).</p>			