## تم تحميل هذا الملف من موقع المناهج الإماراتية





## الهيكل الوزاري الجديد المسار المتقدم منهج بريدج الخطة 102-C

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

تاريخ إضافة الملف على موقع المناهج: 30-10-2024 20:45

ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس المزيد من مادة فيزياء:

## التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم











صفحة المناهج الإماراتية على فيسببوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

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

	"J
أوراق عمل مراجعة الوحدة الثانية Field Electric المجال الكهربائي باللغتين العربية والانجليزية	1
شرح وتدريبات الوحدة الثالثة potential Electric الجهد الكهربائي منهج انسباير	2
حل أوراق عمل شاملة الوحدة الثالثة Potential Electric الجهد الكهربائي	3
أوراق عمل شاملة الوحدة الثالثة Potential Electric الجهد الكهربائي	4
أوراق عمل الوحدة الثالثة potential Electric الجهد الكهربائي باللغتين العربية والانجليزية	5

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			Reference(s) in the Student Book (Arak	pic / English Version)
*السؤال		Learning Outcome Or KPI's** ناتج التعلم أو مؤشر الأداء**	الطالب (النسخة العربية / الانجليزية) Example/Exercise مثال/تمرين	
1		- Solve problems related to how charge is conserved - Show that charges are quantized - 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 objects 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 if interacting particles, and the separation between them	EXAMPLE 1.2 EXAMPLE 1.3 SOLVED PROBLEM 1.1 EXERCISES 1.83 & 1.84 p: 25	10, 11, 12,13,& 14
5		Solve problems involving general charge disribution 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 X for chargealong a line, the surface charge density o for charge on a surface, and the volume	As mentioned in the book  MULTIPLE-CHOICE QUESTIONS 2.5	28, 29 & 30 34, 35 & 36 53
6		Find for a uniform distribution of charge, the linear charge density X for chargealong a line, the surface charge density o for charge on a surface, and the volume	As mentioned in the book	34, 35 & 36
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 expresses 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 points near a flat thin, 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 Es to the change in the electric potential along that direction (Es =-dV/ds) 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 symbolIdentify the symbols of common curcuit elementss of common curcuit elements	FIGURE 4.8	90
15		Solve problems on parallel plate capacitor	EXAMPLE 4.1	91, 92
	Draw	note: Please pay attention to specifying the units of measurement when solving prol ing relationships between variables, identifying and drawing the best fit line connect المسائل، حيث سيرصد درجات على الوحدات كما يرجى تدريب الطلبة على رسم العلاقات بين المتغيرات وتح يصل بين النقاط وايجاد قيم من الرسم البياني	ing the points, and finding values	from the graph.
Q1	В	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	EXERCISES 1.82 p: 25	10, 11, & 12
Q2	В	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	As mentioned in the book	30 & 31
	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 expresses that in an equation (Solve problems on electric flux)	EXAMPLE 2.5	43
Q3	В	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)	As mentioned in the book	44, 45 & 46
Q4	A B	Develop a mathematical equation to describe the electric potential of a point charge or many point charges or distributions of different charges	As mentioned in the book FIGURE 3.21	70 & 71 79 & 80
Q5	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  Apply the relationship between the magnitude of charge q on either plate of a capacitor, the potential difference ΔV across the capacitor, and the capacitance C  of the capacitor	As mentioned in the book	88 & 89
	ght appear in a	different order in the actual exam.		
Questions mig				4 * \$4 . 4
				قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي.
	in the textbook	x, LMS, and scheme of work (SoW).		قد نظهر الاسئلة ببرنيب مختلف في الامتحان الفعلي. كما وردت في كتاب الطالب وLMS والخطة الفصلية.

Academic Year العام الدراسي	2024/2025
Term	1
الفصل	
Subject	Physics C 102
المادة	فيزياء C 102
Grade الصف	12
Stream	Advanced
المسار	المتقدم
Number of Electronic Questions (Swift Assess)	
	15
عدد الأسئلة الإلكترونية (سويفت أسيس)	
Mark per Question	4
الدرجة لكل سؤال	7
المارجة من شوان	
Number of Free Respones Questions (Paper Part)	
	5
عدد الأسئلة المقالية (الجزء الورقي)	
Mark per Question	
	8
الدرجة لكل سؤال	
Type of All Questions	Electronic Questions & Free Respones Questions
نوع كافة الأسئلة	أسئلة إلكترونية & أسئلة مقالية
Maximum Overall Grade	
	100
الدرجة القصوى الممكنة	
Exam Duration	
مدة الامتحان	150 minutes
Mode of Implementation	Swift Assess & Paper Part
	سويفت أسيس & جزء ورقي
طريقة التطبيق	
طريقة التطبيق	
Calculator	Allowed
	Allowed مسموحة