تم تحميل هذا الملف من موقع المناهج الإماراتية

الهيكل الوزاري الجديد منهج بريدج المسار المتقدم

تاريخ إضافة الملف على موقع المناهج: 2024-05-20 10:49:28

التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم

اضغط هنا للحصول على جميع روابط "الصف الثاني عشر المتقدم"

روابط مواد الصف الثاني عشر المتقدم على تلغرام

التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات

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

1	أسئلة الامتحان النهائي الالكتروني والورقي
2	أسئلة اختبار دوري في الدروس الثلاثة الأولى من الوحدة التاسعة
3	ملزمة الوحدة العاشرة دارات التيار المتناوب مع تدريبات
4	الدروس المحذوفة من مقرر الفيزياء
5	أسئلة الاختبار التكويني الأول الوحدة التاسعة الحث الكهرومغناطيسي

Academic Year العام الدراسي	2023/2024
Term الفصل	3
Subject المادة	Physics/Bridge الفيزياء/ بريدج
Grade الصف	12
Stream	Advanced
المسار	المتقدم
Number of MCQ عدد الأسئلة الموضوعية	15
Marks per MCQ الدرجات لكل سؤال	4
Number ofFRQ عدد الأسئلة المقالية	5
Marks per FRQ الدرجات لكل سؤال	6--12
*** Type of All Questions نوع كافة الأسئلة	Part(1) MCQ
	Part (2) FRQ
* Maximum Overall Grade *الدرجة القصوى الممكنة	100
Exam Duration - مدة الامتحان	150 minutes
Mode of Implementation -طريقة التطبيق	SwiftAssess & Paper-Based
Calculator الآلة الحاسبة	Allowed مسموحة

	Question السؤال	Learning Outcome/ Peformance indicator (Topic) نتائج التعلم / مؤشر الأداء (عنوان)	Reference(s) in the Student Book المرجع في كتاب الطالب	
			Example/Exercise مثال/تمرين	Page الصفحة
MCQ الأسئلة الموضوعية	1	Describe experiments to show that changing magnetic field inside a conducting loop induces a current in the loop.	As mentioned in the textbook Q. 9.5	226 251
	2	Calculate the magnetic flux ϕ B through a given surface.	As mentioned in the textbook	227-228
	3	Describe, based on the equation of Faraday's Law, that potential difference could be induced in a loop either by varying the magnetic field 'B' with time (A and Θ are constant), changing the area 'A' of the loop with time (B and Θ are constant), or changing the angle 'Θ' between the magnetic field and the normal to the loop with time (A and B are constant), and demonstrate that by mathematical equations	As mentioned in the textbook	229-230
	4	State Lenz's Law as: 'An induced current in a loop will have a direction such that the magnetic field due to the induced current opposes the change in the magnetic flux that induces the current' Induced Potential Difference on a Wire Moving in a Magnetic Field Solve problems related to Lenz's Law, and motional emf	As mentioned in the textbook FIGURE 9.10	232-235
	5	Induced Potential Difference on a Wire Moving in a Magnetic Field Solve problems related to Lenz's Law, and motional emf Induced potential difference as a function of time for a generator	As mentioned in the textbook EXAMPLE 9.4 Q. 9.9	235-237 236 251
	6	Generators and Motors Identify electric generators and electric motors as everyday applications of electromagnetic induction and electromagnetic force.	As mentioned in the textbook FIGURE 9.20	239-240 240
	7	Induced Electric Field Solve problems related to induced electric field by changing magnetic flux.	As mentioned in the textbook	240-241
	8	Unit of inductance Define the inductance of a device as a measure of its opposition to changes in current flowing through it, measured in henry (H)	As mentioned in the textbok	240-241
	9	constant (T) in RL circuit Calculate the inductive time constant τRL for an RL circuit	As mentioned in the textbook SOLVED PROBLEM 9.3 Q. 9.49	245-246 246 254
	10	LC Circuits Recall that the energy stored in the electric field of a capacitor of capacitance C, at any instant, is given by . $U_E = \frac{1}{2}\frac{q^2}{C}$ Recall that the energy stored in the magnetic field of an inductor with inductance L, at any instant, is $U_B = \frac{1}{2}Li^2$	As mentioned in the textbook Q. 10.28 Q. 10.29	258-260 285
	11	Self-Induction Define self-induction and mutual induction	As mentioned in the textbook	242
	12	Mutual Induction Solve problems related to self-induction and mutual induction	As mentioned in the textbook SOLVED PROBLEM 9.2	242-244
	13	Alternating current circuit Describe the alternating sinusoidal current, induced in a circuit containing a sinusoidal time varying sour	As mentioned in the textbook FIGURE 10.8	264-265
	14	Single-loop circuit with a resistor and a source of time-varying emf varying voltage across the resistor, for a circuit consisting of a resistor and a source of time varying emf.	As mentioned in the textbook	264-265
	15	Derive an expression for the current across the resistor, in a circuit consisting of a resistor and a source of time varying emf, as $i_R = \frac{v_R}{R} = \frac{V_R}{R}\sin(\omega t) = I_R \sin(\omega t)$	As mentioned in the textbook	264-265
FRQ الأسئلة المقالية	1	Solve problems related to Self Inductance of a Solenoid	As mentioned in the textbook	241
	2	Apply the ideal transformer equation ($\frac{I_S}{I_P} = \frac{V_P}{V_S} = \frac{N_P}{N_S}$) to solve numerical problems.	As mentioned in the textbook	279-281
	3	Solve problems related to Mutual Induction of a Solenoid and a Coil	SOLVED PROBLEM 9.2	242-244
	4	Solve problems related to Lenz's Law	Example 9.3 and Example 9.4	236-237
	5	Solve problems related to LC oscillator showing the variations of charge, current, energy stored in electr	As mentioned in the textbook	258-260
**		Questions might appear in a different order in the actual exam,		
**		قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي،		
***		As it appears in the textbook, LMS, and scheme of work (SoW).		
***		كما وردت في كتاب الطالب وLMS والخطة الفصلية.		