E/0/ ٦٠٠٧ : قالم الكان

د مسسح ا ش

جمهورية مصر العربية

وزارة التربية والتعليم والتعليم الفني امتحان شهادة إتمام الدراسة الثانوية العامة لطلاب الدمج التعليمي المادة الفيرياء بالانطيزية (دمج شلل)

محموع الدرجات

عدد الصفحات (اثنى عشر صفحة) + الغلاف

الخارجي + صفحة واحدة مسودة وفقد أية ورقة من الكراسة يعتبر مسنولية الطالب.

(الإجابة في نفس كراسة الأسئلة) ﴿ الدور الثاني ٢٠٢٢ م ﴿ زَمن الإجابة : ثلاث ساعات

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جممورية مصر العربية

وزارة التربية والتعليم والتعليم الفنى امتحان شهادة إتمام الدراسة الثانوية العامة لطلاب الدمج التعليمي المادة النسوناء بالانخليزية (دوي ثلل)

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•	of Education and Technical Ed	
General Secondary Edu	cation Certificate Examination Third Year Secondary	1 – Second Session 2022
Physics	Third Tear Secondary	Time: 3 hours
(الإجابة في نفس كراسة الأسئلة)	(الدور الثاني ٢٠٢٢)	الفيزياء بالإنجليزية
Answer the following que		(الأسئلة في أثنى عشر صفحة)
Group one: Questions fro	<u>om (1-9)</u>	
1) Answer (A) or (B):		
(A) Choose the correct an		
-	namo's coil when its terminals	are connected to two slip
rings	0) E 11	2) 41/
,	2) Eddy current	3) Alternating current
B) Choose the correct and	<u>swer:</u> mutual induction between two	`
coils	mutuai muuchon between two)
1) The Webber	2) The Tesla	3) The Henry
2) Answer (A) or (B):	<i>-) 11.</i> 1 est	o) 1 120 j
A) When does the followi	ng quantity equal zero?	
"The electromagnetic torqu	-	
B) When does the following		
	y at the midpoint between two	wires carrying the same
current intensity"		
		• • • • • • • • • • • • • • • • • • • •
(A) (D)	• • • • • • • • • • • • • • • • • • • •	
3) Answer (A) or (B):		
(A) Choose the correct an		
	ns equals 200 turns, the magne	
	eb./s. then the induced electron	notive force in the coil
is	2) (Walter	2) 40 \$7.24.
1) 8Volts P) Change the sourcet and	2) 6 Volts	3)40 Volts
B) Choose the correct ans	area 0.2m ² , the magnetic flux of	lensity acting on it
•	then the induced electromotive	•
equals		
<u> </u>	2) 6Volts	3) 8Volts
(2) 6Volts (بقية الأسئلة في الصفحة الثانية	

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(دمج . ش)		(۲۰۰۷) / ۵/ تان / تابع
4) Choose the correct a	inswer:	
	ty at a point away from a straig	ght wire by a perpendicular
	relation	V 1 1
$1)\frac{\mu NI}{2r}$	$2)\frac{\mu I}{2\pi d}$	3) $\frac{\mu NI}{I}$
5) Choose the correct a	2110	И
	ectromotive force in Dynamo's	coil equal to zero
_	om the perpendicular position	
1) Complete cycle	2) half cycle	3) quarter cycle
6) Choose the correct a	nswer:	, -
A group of similar resis	tors the value of each of them	is (R) are connected in
series, then the total resis	stance of the circuit is	•••••
1) NR	2)R/N	3) R
7) Choose the correct at	nswer:	
Two straight parallel wi	res the perpendicular distance	between them is (d), if the
current in the first wire is	s (I) in the same direction to th	e current in the second
wire which equals (3I)if	the force by which the first wi	re acting on the unit length
of the second wire is (F)	then the force by which the se	cond wire acting on the
unit length of the first wi	ire is	_
1) F	2) 3F	3) 1/3 F
8) Choose the correct a	nswer:	
The step up transformers	s near to the power stations step	p up the voltage to
decrease		
1) The electric energy p	produced from the station.	
2) The electric energy a	it the consuming zones.	
3) The electric energy c	consumed in the cables.	
9) Choose the correct a	nswer:	
A photon has a momentu	ım 1.75 X 10 ⁻²⁷ Kg.m/s. falls o	n a certain surface, then
the wave length of that p	hoton equals	******
(Knowing that Planck's c	constant h=6.625 X 10 ⁻³⁴ J.S.)	
1) 4x10 ⁻¹⁷ m	2) 3. 785 x10 ⁻⁷ m بقية الأسئلة في الصفحة الثالثة)	3) 2x10 ⁻²⁰ m
	بقيه الأسئلة في الصفحة التالته))

(دمج . ش)	-٣-	(۲۰۰۷) / ه/ E /۵ (۲۰۰۷)
Group two: Questions fro	om (10 – 18)	
10) Answer (A) or (B):		
A) Write down the scientif	ic term for the following	
"The rate of passing the un	it of the electric charge th	nrough the conductor"
•••••		
B) Write down the scientifi	ic term for the following.	
"The work done to transfer	the unit of the electric cl	narge between two points"
	•••••••	
11\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		•
11) Answer (A) or (B):		
(A) Choose the correct an	<u> </u>	• 1
In the ideal transformers		*
1) The number of turns of		
-		f primary and secondary coils
		comes out from secondary coil
(B) Choose the correct an		
If the effective induced E.N	•	
maximum induced E.M.F e		
1) Zero	2) 200 Volts	3) 282.8 Volts
12) Answer (A) or (B):		
(A) Choose the correct an		
The equivalent measuring u	init for the Webber is	
1) Ω .s	2) V.s	3) Ω.C
(B) Choose the correct an	<u>nswer:</u>	
A straight wire of length (1)	m) moves perpendicular	to a uniform magnetic field
with a velocity (2m/s) as a 1	result an electromotive for	orce of (0.8Volts) is induced
in the wire so that the intens	sity of the magnetic flux	in which the wire moves
equals		
1) 0.6T	2) 0.5T	3) 0.4T
(لأسئلة في الصفحة الرابعة)	(بقية ا

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(دمج . ش)	_ £ _	(۲۰۰۷) / ۰/ E /ثان / تابع
13) Choose the correct an	swer:	
The mass of the photon car	be calculated from the rel	ation
1) hv	$2)\frac{hv}{c^2}$	$3)\frac{hv}{c}$
14) Choose the correct an	swer:	-
The pointer of the moving	coil galvanometer returns t	o zero position when the
current is switched off beca	ause of the presence of	
1) The two spiral springs.	2) The concave poles.	3) The metallic cylinder.
15) Choose the correct an	swer:	
When the pointer of the oh	mmeter refers to one third	the scale, then the measured
resistance has a value equa	ls	••••
1) Half the internal resista	ance of the device.	
2) double the internal resi	istance of the device.	
3) Equal to the internal re	esistance of the device.	
16) Write down the scient	ific term for the following	g <u>:</u>
"The induced electric curre	nt in a coil is in such a dire	ection opposes the change
which causes it"		
17) Choose the correct an	swer:	
A wire of length (ℓ) and cro	oss sectional area (A) if its	temperature is increased
without any effect on its lea	ngth or its cross sectional a	rea, then the specific
resistance of the wire will		
1) Increase	2) Decrease	3) Remain constant
18) Choose the correct an	iswer:	
Galvanometer has a coil of	resistance 400 Ω can meas	ure a current of maximum
value50 mA if the coil of the	ne galvanometer is connect	ed in parallel to a shunt
resistor of 1.0025 Ω then th	ne maximum current can be	e measured by the device
after modification equals		
1) 10A	2) 20A	3) 25A
	الأسئلة الصفحة الخامسة	Ĭ.ä. \

(دمج . ش)	_5_	(۲۰۰۷) / ۵/ <u>E</u> /۵ (۲۰۰۷)
The third group question	ons from (19 - 27)	<u>1</u>
19) Answer (A) or (B):		
A) Write down the scien	ntific term for the	following:
"The opposition of the co	nductor to the flow	of the electric current through it"
	•••••	
B) Write down the scien	ntific term for the	following:
"The total work needed to	o transfer the unit of	f the electric charge through the
whole circuit inside and o	outside the source"	
20) Answer (A) or (B):		
(A) Choose the correct a		
		sity passing through the coil
increases, then the self-in		
coil		
1) Decreases 2) 1		3) remains constant
(B) Choose the correct a		
		assing through the primary coil, then
		primary and the secondary
coils		
1) Decreases 2)]	Increases	3) remains constant
21) Answer (A) or (B):		
(A) Choose the correct a		1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 '
		l resistance (r) is connected in series
		switched on the potential difference
between the terminals of t		
•	Decreases	3) Doesn't change
(B) Choose the correct a		
	•	value of the smallest resistor in the
group equals one Ohm, th		ce of the group will
be		Oh 2) C
1) Smaller than one Ohm		Ohm. 3) Greater than one Ohm.
	ى الصفحة السادسة)	(بقيه الاسئله ٥

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(دمج . ش)	_7_	(۲۰۰۷) / ۵/ E ان / تابع
22) Choose the correct answer A straight wire of length (1m.) Cits plane is perpendicular to a magnetic force (0.6 N.) so that the equals	carrying a current agnetic field, the	. ,
1) 0.1T.	2) 0.2T.	3) 0.3T.
23) Choose the correct answer	<u>:</u>	
A light beam falls on the surface the surface without gaining any the incident light is	kinetic energy, th	en the energy of the photons of
1) Smaller than	2) Equal to	3) Greater than
24) Choose the correct answer	•	
In the pure silicon crystal at roo negative charge carriers and the is one.	•	
1) Smaller than	2) Equal to	3) Greater than
25) Choose the correct answer	<u>.</u>	
The codethe number (30) in decimal system		ary system is corresponding to
1) $(11010)_2$	2) (101101) ₂	3) (11110)2
26) Choose the correct answer:		
A circular coil of radius 11 cm. of the current passes through the couther of the coil equals	il is 5A. Then the	•
1) 1T 2) 0.	1T	3) 0.01T
ىابعة)	سئلة في الصفحة الس	(بقية الأس

(دمج . ش)		(۲۰۰۷) / ۵/ ثان / تابع
27) Choose the correct ans		G-70-7E7-7 (****)
A coil of alternating current of its turns is 100 turns revol	dynamo the area of its falve in a magnetic flux of	
1) 200 V.	2) 220 V.	3)240 V.
Fourth group (28 -36):		
28) Answer (A) or (B):		
A) Choose the correct answ	ver:	
If the intensity of the current current of the collector is 39 equals		•
1) 0.95	2) 0.99	3)1.99
B) Choose the correct answ	ver:	
If the intensity of the current current of the collector is 4 nequals	•	·
1) 500	2) 250	3) 50
29) Answer (A) or (B):		
A) Choose the correct answ	ver:	
The shortest wave length in texist in	the spectra produced from	n excited Hydrogen atom
1) Lyman's series	2) Paschen's series	3) Pfund's series

(بقية الأسئلة في الصفحة الثامنة)

(دمج . ش)	_^_	(۲۰۰۷) (۱۰۷ ثان / تابع
B) Choose the correct a	nswer:	
	netal at high temperature and note that the neceived spectrum	•
1) Continuous emission		
2) Line emission		
3) Line absorption		
30) Answer (A) or (B)		
A) Choose the correct a	nswer:	
Ampere right hand rule is	s used to	
1) Determine the directi	ion of the induced E.M.F in a	straight wire.
2) Determine the directi	ion of the induced E.M.F in a	circular coil.
3) Determine the directicurrent.	on of the magnetic flux arou	nd a straight wire a
B) Choose the correct a	nswer:	
Fleming left hand rule is	used to	
1) Determine the directicarrying current.	on of the magnetic force acti	ing on a straight wire
2) Determine the directi	on of the induced E.M.F in a	circular coil.
3) Determine the directicarrying a current.	on of the magnetic flux arou	nd a straight wire
31) Choose the correct a	answer:	
•	ncident light on the surface of action of the metal will	
1) Decrease to half	2) increase to double	3) remains constant
	بقية الأسئلة في الصفحة التاسعة)	·)

(دمج . ش)	_1 -	(۲۰۰۷) / ۵/ اثان / تابع
36) Choose the correct	answer:	<u> </u>
rotates in a uniform mag	ists of 440 turns the surface area gnetic field of density 0.25T. We induced E.M.F through half c	ith a rate of 50 cycles per
1) 110 V.	2) 220V.	3) 440V.
Fifth group (37 - 45):		
37) Answer (A) or (B):		
A) Choose the correct	answer:	
One of the devices in who for the closed circuit is.	hich the scientific idea of its act	tion is based on Ohm's law
1) The Ammeter.	2) The voltmeter.	3) The Ohmmeter
B) Choose the correct	answer:	
	on of the magnetic dipole mom rectangular coil we use	
1) Fleming left hand.		
2) Fleming right hand.		
3) Right hand screw		

38) Answer (A) or (B):

A) Choose the correct answer:

The scientific idea of the action of the electric motor is based on

- 1) The principal of conservation of the momentum.
- 2) The torque acting on a coil.
- 3) The principal of inertia. (بقية الأسئلة في الصفحة الحادية عشر)

(دمج.ش)	-11-	(۲۰۰۷) / ۵/ <u>ا</u> ثان / تابع
B) Choose the correct ans	wer:	
	nating current reaches to zero the current equals	ŕ
1) 50Hz.	2) 60Hz.	3) 120Hz.
39) Answer (A) or (B):		
A) Choose the correct ans	wer:	
	ance of the potential multipli	
1) Greater than	2) Smaller than	3) Equal to
B) Choose the correct ans	wer:	
	ance of the current divider in	
1) Greater than	2) Smaller than	3) Equal to
40) Choose the correct ans	swer:	
The spectral line series that atoms in ultra violet zone is	result due to the relaxation of called	f the excited Hydrogen
1) Pfund's series.		
2) Lyman's series		
3) Balmer's series		
41) Choose the correct ans	swer:	
The thermal effect of the ed	dy currents can be used in	
1) Induction furnaces.		
2) The electric transforme	r.	
3) The electric motor		
()	بة الأسئلة في الصفحة الثانية عش	(بقی

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(دمج. ش)	_1 Y_	(۲۰۰۷) / ۵/ ثان / تابع
42) Choose the correct	answer:	
The coils of standard oh	nmic resistors are made of dou	ible wound back wires
to		
1) Decrease the resista	nce of the wire.	
2) Avoid self-inductan	ce.	
3) Facilitate the condu	ction.	
43) Choose the correct	answer:	
`	Ne) laser is produced when the rom a certain excited level to	
1) Helium only	2) Neon only	3) Helium and Neon
44) Choose the correct	answer:	
The laser beam is used i has	n cauterize the retina because	laser beam
1) Thermal effect.	2) Highly coherent.	3) High intensity.
45) Choose the correct	answer:	
	the scientific idea of its action	n based on the
1) The electric motor.		
2) The galvanometer.		
3) The electric generate	or.	
	(انتهت الأسئلة)	

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DECEMBER (1880)
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