☆	S.S.C -(Part-II)-A	r		·I I	-T
أميد دارخوريد كرك أميد دارخوريد كرك	(For all sess	ions)	Paper Code	7 4 7	1
	پ-Group-I	 گرو			-
Physics (Objective Type)	0 40 61-	2)_) (معروضی)	نزنس
Marks: 12	Time: 15 Minut	وقت 15 منك es			بر:12
ں جواب کوآپ درست سمجھیں ،	بات,C,B,A اورDوئيے گئے ہیں،جم				
	ائر ہے کو مار کریا پین کی سیاہی ہے بھردیں استعمال		-		واني کا لي:
NOTE: Write answers to the questions or each question are given. Which answer you					of each
question with Marker or pen ink on the ans		corresponding on	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		., 000.
1.1. In a vaccum all electromagnetic wa		يں:	ميثك وبوزايك جيسى ركهتي	وم میں تمام الیکٹر ومٹیکنر	.1. ويكي
(A) Speed يييرُ (B) Fred	quency فریکونی (C)	ى ٹيوۇ Amplitude	لکیا (D) Wave	البنگتھ length	,
2. The speed of sound in liquid as cor			ين آواز كى سپيد ہوتى ہے:		
		دوگنا Two times	(D) Eight	آٹھگنا times	
3. The refractive index of crown glass	is:		س ہوتا ہے:	ؤن گلاس کار فریکٹوا تڈ	:. کراهٔ
(A) 2.42 (B) 2.21	(C)	1.66	(D) 1.52		
4. Five joules of work is needed to shift	10C of charge from one	7	، جگہ سے دوسری جگہ لے جا		
place to another. The potential differen	ce between the places is	نرین <i>یں ہے۔</i> ::	امات کے درمیان پوٹینشل ڈ	پڑتا ہے۔ان دونوں مق	كرنا:
(A) 0.5V (B) 2V	(c)	5V	(D) 10V	··£	
5. SI unit of electric intensity is:				كِ أَنْتَيْسَتْ كا . 5 يونسْط	الليكرُ
(A) Nm ⁻¹ (B) NC	1 (C)	Nm ⁻²	(D) Nm	. المائد	1.11
Electric potential and e.m.f:	S			کِ پوئینشل اورای-ایم میزر به	. البلتر
بقدارین بین (A) are the same terms	The second secon	are the different			
(C) Have the different units した	(D) ان کے یونس مختلف	are both B and	ل(B)اور (C)		K (1
7. 1KWh is equal to:	(0)	0/	D) 4.6M.) رکٹ میں کس قانون کے مر	نوواٹ ور برابر ہے: •	. ايك
(A) 1.6MJ (B) 2.6N		3.6MJ	.4.017 (U) كولو علم ركم راتالدور كور	J 'r m m (a m f t)	اماً لدر
8. The direction of induced emf in a c	rcuit is in accordance w	tn 120370.	ر سندن ن و و و معر	عدا.۱۱۱.۱۶۰ من	, , , , , , , , , , , , , , , , , , ,
conservation of: (A) Mass しい (B) Cha	rge Zula (C)	Momentum	(D) Enero	از کی برد	
(A) Mass Ul (B) Cha 9. A device which is used to increase			زیادہ کرنے کیلئے استعال <i>:</i>		. ایکآا
the AC voltage is called:		7		_, _	
(A) Transformer رانسفارم (B) Mote	or موٹر (C)	یٹر Generator	7. (D) Voltm	وولٹ میٹر eter	,
10. The particles emitted from a hot ca			طے سے خارج ہوں ، کہلانے		
(A) Negative ions نیکیو: (B) Pos			(D) Proto اليك	يروڻانز ons	,
11. The brain of any computer system			:	ئى كېپيوٹرسسٹم كاو ماغ ₋	. سمسی مجھ
(A) Monitor مونير	(B)	میموری Memory			
ر C) C.P.U ي يي يو	(D)	Control unit	كنثرول بونية		
12. Isotopes are atoms of same eleme	nt with different:	ن کامختلف ہوتا ہے۔	کے ایسے ایٹمز ہوتے ہیں ج	بس ایک ہی ایلیمنٹ.	. آئسوڻو
(A) Atomic mass		Atomic number	; /		

y ,	S.S.C - (Part-II) -A-2022		
أميروارخوديركر(For all sessions)	قومس ده کړ	
	آروپ-I	فرنس (إنثائي)	
48: 15	<u> </u>	وقت:1:45 محفظ	
KW1661-2-2		2- درج ذیل میں ہے کوئی سے پانچ اجزاء کے مختصر جوابات	
iii. الكشرك ياور سے كيام واد بي اس كافار مولاكسيں	ii. ثابت كرين كه 1KWh=3.6MJ	i. وولٹا تک پائل کیا ہےاور کس نے اسے ایجاد کیا؟	
20 C(1) 1 C(100 0.710 1.11	۷. میوچل انڈکشن سے کیامراد ہے؟	MRI .iv سے کیام او ہے؟ اندر اورا سے گار کو طور رہ ہے کا اس	
سادات سے ظاہر کریں۔	' iii. ' ' ' ' کے بیٹا(کر)ؤی کے کامل م کامھ	vii. ماحول ہے بیگ گراؤ تُدریڈی ایش کے سور سز کیا ہیں: 3- ورج ذیل میں سے کوئی سے یافئی اجزاء کے مقطر جوایات	
10=5x2	و بھی۔ ان کورون کی روزوں کی ان کر	ن سائز کی کوالٹی کی تعریف کچھیں ہے ۔ شاہ لکھیں نے سائز کی کوالٹی کی تعریف کچھیں ہے ۔ شاہ لکھیں	
10=5x2 غ- انان کولمب کے قانون کی تعریف کیلئے اوراس کی مساوات لکھیئے ۔	۱۱. پیشتر زیے جاراستعالات کی نسٹ تیار چینے رید میج کی تین: کئیر را پر پرانسی کرے ماہ	iv براوزرز سے کیام اور سرکان کی دورایات ممال میں۔	
ے -	۷۰۰ کا کا کریف ہیے ۔ان ۱۵ تھاری توال پر ہوتا Viii برائم کی میموری اور سکنٹ کی مموری کر رو	۷۱۱. کمپیوٹر ہیڈانفار تمیشن سٹم کے کمپوٹیٹس کے نام کھیئے۔ میں میں میں میں میں میں میں میں میں میں	
•	سند پر رن مردن در پیرون در در مردن ورن ساور در استان در در در در مردن در در در در مردن در در در در در در در در مردن مردن در	م الرام تحقر جوابات من الترام تحقر جوابات	
10=5x2 - نانا. کینز کی پاور کی تعریف کریں اور اس کا فار مولا کھیں۔	ii. مرّ رفارمولا کیاہے؟ اسکی حسانی مساوات لکھیا	i نینڈ گیٹ کاٹروتھ ٹیبل کھیں۔	
-0. Wy 7000 0.50 C. 5 C. 5 C. 5 C. 5 C. 5 C. 5 C	AX= A	iv. بیعلامت کس گیٹ کی ہے؟اس کاٹروتھ ٹیبل ککھیں۔	
	ریں کیاہیں؟مخضروضاحت کرس۔	۷. فنگسٹن بلب کے فلامٹ کیلئے دولئے اور کرنٹ کی مقدار	
	آپیٹیکل سعشر میں فرق کریں	۷۱. عد سول في افسام كے صرف نام تصيئے _ رسول ايكس اور	
	نی 1 میٹراور g=10ms ⁻² ہو_	vii). ایکشمپل پیژولم کا ٹائم پیریڈمعلوم آریں جبکہ اس کی کہا بنان کو مروق کی لیشنہ سے کام نہ یہ دوئی جج فویر سر بہلڈ	
		viii. وْيَمِيدُ آ كِلْنِصْوْ كَ كِمَامْ اوْجٍ؟ وْيُمِيكُ فُورَى كَالْمِيلُ	
18=2x9	' ' ' ' ' ' ' ' ' ' ' ' ' ' '	لوث: درج ذیل میں ہے کوئی ہے دوسوالات کے جوا	
04 کیچئے ۔ آگر بلب کوروز ان کی گفتوں کیلئے روٹن کیا جائے تو اس بلب 05	؟ کامثال سے ایکٹیویٹی کی وضاحت کیچیئے نیز گراف۔	5. (الف)-بافلائف سے کیامرادے؟ریدیم-226	
کے راکا ہر نہیں - کیچئے ۔ اگر بلب کوروز انساد کھنٹوں کیلئے روٹن کیا جائے تو اس بلب م	کھا ہوا ہے۔اس ہلب کے فلا منٹ کی زمسٹنس معلوم میں ہور مقد مرد اس کے ب	رب)۔ ایک اسٹرک بلب پر 100W،220V ا پرایک مہینہ (میں دن) میں ٹرج ہونے والی ابزجی کلوو	
The second second	ات ورین معنوم پہنچے۔ برا سکراژ انتہاں اس کمرکہ نے کا طب اولکوں ب	6. (الف)۔شوری آلودگی سے کیام ادے؟انیانی زندگی	
04 تے ہیں کان چار جز کے درمیان فورس کی قیت معلوم کریں جب	پوت ارات دوہر ہے ہو ۔ ل تو وہ ایک دوہر ہے کو 0.1N کی فورس سے دفع کر	رب)۔ دوجار جزجب5cm کے قاصلے پر ہڑے ہوا	
ع باب الله الله الله الله الله الله الله		وہ2cm کے فاصلے پر کھے گئے ہوں۔ 7 مان مسمل اسٹریش کئے	
ہے۔ ڈایا گرام بھی بنائیں۔ 🕒	کریں کہ سپرنگ سے منسلک جسم کی موثن S.H.M این کا ۲۰۵۰ ہے ، ان میں اس نام کا کہا	7. (الف) میمپل ہارمونگ موش کی تعریف کریں۔ ثابت (ب)۔ پانی کا کریٹیمکل اینگل معلوم کریں۔ اگر وفریک	
بالترتيب1.33 اور 1 بين _	رايض 90 ہوجبلہ پای اور ہوائے رقر میشواند میش	رود ماد و دو المدور و دو المدور و المدو	
	p-I (For all session		
Physics (Essay Type) Grou	p-1 (For all session	Total Marks: 48	
Physics (Essay Type) Grou Time: 1:45 Hours	Section-I	Total Marks: 48	
Time: 1:45 Hours	Section-I the following.	Total Marks: 48 2x5=10	
Time: 1:45 Hours 2- Write short answers of any five part from	Section-I the following. ed it? ii. Prov. nat 1KW	Total Marks: 48 2x5=10 Vh=3.6MJ. by MRI?	
Time: 1:45 Hours 2- Write short answers of any five part from i. What is the voltaic pile and who develop iii. What is meant by electric power?Write it	Section-I the following. ed it? ii. Prov. nat 1KW ts formula. iv. What is meant vi. How does ATM	Total Marks: 48 2x5=10 Vh=3.6MJ.	
Time: 1:45 Hours 2- Write short answers of any five part from i. What is the voltaic pile and who develop iii. What is meant by electric power?Write it v. What is meant by mutual induction?	Section-I the following. ed it? ii. Prov nat 1KW ts formula. iv. What is meant vi. How does ATM on from environment?	Total Marks: 48 2x5=10 Vh=3.6MJ. by MRI?	
Time: 1:45 Hours 2- Write short answers of any five part from i. What is the voltaic pile and who develop iii. What is meant by electric power?Write it v. What is meant by mutual induction? vii. What are sources of background radiation: Write the heta (B) decay process of ¹⁴ C	Section-I the following. ed it? ii. Prov nat 1KW is formula. iv. What is meant vi. How does ATM on from environment? by equation.	Total Marks: 48 2x5=10 Vh=3.6MJ. by MRI?	
 Time: 1:45 Hours 2- Write short answers of any five part from i. What is the voltaic pile and who develop iii. What is meant by electric power?Write it v. What is meant by mutual induction? vii. What are sources of background radiativiii. Write the beta(β) decay process of ¹⁶/₆C Write short answers of any five part from 	Section-I the following. ed it? ii. Prove nat 1KW is formula. iv. What is meant vi. How does ATM on from environment? by equation. the following. iii. Enlist four uses	Total Marks: 48 2x5=10 Wh=3.6MJ. by MRI? I machine read bank credit card? 2x5=10 s of capacitors.	
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 Time: 1:45 Hours 2- Write short answers of any five part from i. What is the voltaic pile and who develop iii. What is meant by electric power?Write it v. What is meant by mutual induction? vii. Write the beta(β) decay process of ¹⁴₆C 3- Write short answers of any five part from i. Define quality of sound and write an examination in the pitch. On which factor does the pitch. On which factor does the pitch. On which factor does the pitch. Write the names of components of (CBI viii. Differentiate between the primary memory. Write short answers of any five part from it. Write the truth table for nand gate. ii. What is mirror formula?Write its mather iii. Define the power of the lens and write it iv. Whose gate symbol is this?Write truth the power of the lens and write it. 	Section-I the following. ed it? ii. Prov. nat 1KW is formula. iv. What is meant vi. How does ATM on from environment? by equation. the following. iii. Enlist four uses ation. iv. What are Brow itch of sound depend? ith an example. IS) computer based information ory and the secondary memory in the following. matical form. ts formula. able for this gate. A—Do— order current for thermoionic emiss	Total Marks: 48 2x5=10 Wh=3.6MJ. by MRI? I machine read bank credit card? 2x5=10 s of capacitors. reers?Give their two examples. In system. Y. 2x5=10 C= A Jion for a fine tungston filament.Explain brief	efly.
 Time: 1:45 Hours 2- Write short answers of any five part from What is the voltaic pile and who develop What is meant by electric power? Write it What is meant by mutual induction? What are sources of background radiatic Write the beta(β) decay process of ¹⁴₆C 3- Write short answers of any five part from Define quality of sound and write an examination in the pitch. On which factor does the pitch. On which factor does the pitch. Explain application of static electricity with write the names of components of (CBI viii. Differentiate between the primary memoral. Write short answers of any five part from it. Write the truth table for nand gate. What is mirror formula? Write its mather iii. Define the power of the lens and write it. Whose gate symbol is this? Write truth to what are the typical values of voltage and with the power of types of lenses. Difference in the power of types of lenses. 	Section-I the following. ed it? ii. Prov nat 1KW is formula. iv. What is meant vi. How does ATM on from environment? by equation. the following. iii. Enlist four uses ation. iv. What are Brow itch of sound depend? ith an example. is) computer based information or and the secondary memory in the following. matical form. ts formula. able for this gate. A—Do—> indicate the principal axis and	Total Marks: 48 2x5=10 Wh=3.6MJ. by MRI? I machine read bank credit card? 2x5=10 s of capacitors. reers?Give their two examples. In system. Y. 2x5=10 C= A Jion for a fine tungston filament.Explain brief	efly.
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☆	S.S.C-(Part-II)-A-2022		
Roll No. حرير الميدوار خود يركز ك	(For all sessions	Paper Code	7 4 7 2
	گروپ-Group-II		
DI -1			فرنس (معروضی)
Physics (Objective Type)	Ruf-42-22 Time: 15 Minutes	دقت 15	نمبر:12
Marks: 12	C D (C D A 112.6/15)	ت دې لځې معروضي جواني کا بي پرلکھيئر پرسوال	نوٹ: تمام سوالات کے جوابار
ا سرهم و ال	الماست معلقه دائر ہے تو مار کریا جرن کی ہے ان	الساور المرابي ما سال المرازول.	
NOTE: Write answers to the questions on object each question are given. Which answer you cons	tive answer sheet provide	onding circle A,B,C or D (given in front of
each question are given. Which answer you conse each question with Marker or pen ink on the ans	wer sheet provided.	-	
	ę		1.1. ويوزنتقل كرتى بين:
1.1. Waves transfer: (A) Velocity ولاگ	(B) Ene	از جی ergy	
(C) Wavelength و المينكة	(D) Fred	فریکونی quency	
2. The unit of intensity of sound is:	• ,	: ۲-	2. آواز کی انگینسٹی کا پونرہ
(A) Wm ⁻² (B) Wm ²	(C) Wm	1 ⁻¹ (D) Wn	۱ 3. سنیل کا قانون ہے:
3. Snell's law is:	2,	sin i	•
(A) $n = \frac{\sin \gamma}{\sin i}$ (B) $n = \sin \gamma$	(C) $n =$	$=\frac{\sin i}{\sin \gamma} \qquad \qquad (D)^{n} = \frac{\sin i}{\sin \gamma}$	= siny
4. The S.I unit of electric field intensity is:	0/	ا الحایونٹ ہے:	4. اليكثرك فيلذ انتيستى ك
(A) NC ⁻² (B) NC ⁻¹	(C) NC	(D) Nm	ا 5. کسی کمپیسٹر کی کمپیسی شینہ
5. Capacitance of any capacitor is equal to): OI	V (D) $\frac{1}{2}$	
(A) $C = \frac{Q}{V}$ (B) $C = \frac{V}{Q}$	(C) 2'	Q	V
6. Formula of e.m.f is:		ج: ج	6. ای-ایم-ایف کا کلیه
	(C) E =	$=\frac{W}{C}$	= \frac{W}{2}
	(C) E		Q 7. اليكثرك پاوركا يونث_
7. The unit of electric power is:	(C) Far واث	The second secon	ule جول
(A) Ohm اونکا (B) Watt 8. For an ideal transformer:	(0)		8. أيك آئية بل ژانسفارم
(A) $P_p < P_s$ (B) $P_p > P_s$	(C) P _p =	$=P_s$ (D) P_p	≠ P _s
	A	X	
is a first thing make			9. ال گیٹ سے کونسالا جکہ
Which logic operation is formed by this gat	e? B #		•
(A) AND 知 (B) NAND	(C) OF		OR Jt
10. Boolean expression of NOR gate is:		:4-3	10. نارگیٹ کی بولین مساوار
(A) X=A.B (B) X=A+B			$X = \overline{A.B}$ $A.B.$
11. Number of components of computer b	(A) E	(D) 6	11. كمپيوٹر بييڈانفار ميشن سنظ
(A) 3 (B) 4	(C) 5	ن رن) نیک خارج کرتا ہےتو اس کےاٹا مک ماس پر	12. جب أيك اليليمنث الفايار
12. What happens to the mass number of emits one alpha particle?			ليا ار پڑے کا ؟
emits one aipha particle: (A) Decreases by 2 الاعابة 2	(B) D	ecreases by 4 گوجائے گا	4
(C) Increases by 2	(D) In	ncreases by 4 82 401.4	
/k	7 77 40 4 47		

		S.S.C - (Part-II) -A-2022	
Roll No	أميدوارخود پُركرے_	(For all sessions)	فرنمس (انثائی)
<u></u>	0	لروپ-II	وقت:1:45 گھنٹے
كل نمبر:48	K	ر له حد د ۲۵ مرد ۵	
			2- ورج ذیل میں سے کوئی سے پانچ اجزاء کے فقر جو i. الیکٹرک پاورکی تعریف کیچنے اوراس کا پونٹ کھیلے
مساوات لکھیں ۔۔	. فیوژن ری ایکشن کی تعریف کیچیئے اور اس کی و 60 میرین کارین	,111	iv فیراڈے کے الیکٹر دیکن کیا انڈکش کے قانوں کی تعرب
ات سے ظاہر کیجئے ۔	. 27 Co ⁶⁰ ہے گیماڈی کے شیمل کومیاو مرمع عرف بریالا طالب	Viii. ایک سرکٹ میں وولیج کی مقد نامعلوم کی ز کیلیں یا	۷۱۱. بیک کرا وُنڈریڈی ایسنز کی وجو ہات جھیئے۔
		نات ہے۔	3- ورج ذيل ش يكونى سياني اجزاء ك فقرو
10=5x2	کولمب لا کی تعریف کریں اورای کی جہ الی م	.10	ا. عورتول کی آواز مردول کی آواز سے باریک کیوں ہ
عادات ین دول میں کیافرق سرع	الشراسا وُنذِ اور عام طور برسي جا تحليهِ والي آواز	ا - ۷. براوزر کیا ہے؟ اس کی دومثالیں کھیئے۔ یا N.	iv. کمپیوٹر ہیںٹر انفار میشن سٹم کے اجزاء کے نام کھیر iv. کمپیوٹر ہیں ہیں ہے کا کیسر خور سے خور
ں کیسے معلوم کریں گے؟	ڈایا گرام بنا ئیں اوراس کی ایکویلنٹ کیسی ٹینس	(VIII - VIII - VIII - VIII - VIII - VIII - VIII	۱۷۱۰ - چيورورډ پروسيتک نانون نا دونطوصيات کرې 4- درج د بار مل ساک کې د د عنو پروسوميات کرې
10=5x2		بالا ي	4- درج ذیل میں سے کوئی سے پانچ اجزاء کے مختر جوا ا. ککیو اور کو میس مرد میں کیافر ق ہے؟
رہ ہوتی ہے؟	كن دوعوامل كي مدد سے قرميونك ايميشن زيا	ii. کرسٹ اورٹرف سے کیام ادہے؟ اii.	iv. ڈیمیڈاوی کیشنز کا تعریف کیچئے اوراس کی ایک عملی مثا
راس كاٹروتھ ٹيبل لکھيئے۔	NOR گيٺ کي علامتي وُ اُنيا گرام بنايئے او	ں ہے۔ ۷. روی در ریس نے دوا میں تھیئے۔ 4۔	vii. اینالاگ اور دٔ یجیش الیکتر تجس میر رفر و را را یکید
	کی مساوات اخذ کریں۔	الله. ويون ولا في فرينون اورو لوسينته که درميان علق	
18=2x9		_() // () -	نوٹ: درج ذیل میں سے کوئی سے دوسوالات کے
		بچاؤ کی حفاظتی تدامیر بیان کیجیئے _	5. (الف) دریڈی ایشن کے دوخطرات اوران سے
04=2+2	220V کے سرکٹ میں استعمال کرنے کیلئر رہ	چوری کا شار بیرین کھیے۔ ہواہےجو Ω 95 کی رزمنٹس پر چل رہاہے۔ کیا پہ بلب 120V یا	(ب)-ایک چیکتے ہوئے بلب پر 150W لکھا گیاہے صابی طور پر وضاحت کریں۔
05	4	ا- سرگری سے فابت کریں کہ کشش جارج کا نیٹنی نمیٹ ندے۔	یا ہے ساب ور روطانت کریں۔ 6. (الف)۔الیکٹروسلیسطکس انڈکشن کی تعریف کریں
04		امر د کا پنتینٹ ل ا معامی پر	(ب)۔قابل ساعت مدھم ساؤنڈ اور پیوں کی سربر
05		ناندهی کریں ڈایاگرام ماکراس محصرای میں ک	7. (الف) ليتصودُّ رہےاوسيلوسکوب کے مقاصد کی نظ
04=2+2	a & . ("a"	0 ہے چاند پر کے جاتا ہے۔ پنڈولم کا ہیریڈ 98 ہے۔ جاندی سطیر	(ب)-ايك-خلاباز پندولم كوجس كى لمبائي 99m.
05	و و ما يمت ليا هول؟	2002 2-40 12 12 12 12 12 12 12 12 12 12 12 12 12	
Physics	G (Essay Type) Gr	oup-II (For all sessions)	Total Marks: 48
I II y Dree	, ,,		
Time: 1:45 I	Hours	Section-I	25-40
a Meita cha	Hours	rt from the following.	2x5=10
2- Write shor	Hours It answers of any five pare	rt from the following. s unit. ii. Differentiate betwe	en a cell and a battery.
2- Write show	Tours rt answers of any five par electric power and write its Fusion reaction and write i	rt from the following. s unit. ii. Differentiate betwee its equation. iv. State Faraday's La	en a cell and a battery. w of electromagnetic induction.
2- Write show i. Define iii. Define v. What is vi. Write t	Hours It answers of any five pare electric power and write its Fusion reaction and write its the basic difference between 1/2 decay(Gamma decay)	rt from the following. s unit. its equation. iv. State Faraday's Laween a generator and a motor? y) process by equation for Cobalt 27 Co	en a cell and a battery. w of electromagnetic induction.
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