					9				
☆☆	₹^>		S.S.C - (Part-II)-	A-2021					 -1
		أميدوارخود (Fc	or all sess	ions)	Paper Code	7 4	4	7	5
			پ- Group-I	مرو.		(15	معروضا) <i>U</i>	فزكم
Ph	ysics (Objective Typ	e)	ROPG	P21			7	1	نمبر:2
NOTE	ks: 12 پ درست بجھیں، جوانی کا پی پراس سوال نمبر E: Write answers to the ques on are given. Which answer y on with Marker or pen ink or	دیے گئے ہیں،جس جواب کوآ ر stions on objective : ou consider correct	بات,C,B,A,اورD ن کی سیابتی سے بھردیں answer sheet t, fill the corre	provided. Four	possible answers	A,B,C	& D t	o ea	توث: د ch
questi	Off With Marker of perting of					، پٺ'0' ہواً	سر.	(, E	L. 11
2. 1	The output of NAND gate is (A) A=0 and B=0 (ا n computer terminology inf (A) Any data كُولُ بِمِى زُيِّا (C) Processed data يَسْدُوْنِيا One of the isotopes of Urani	3) A=1 and B=1 ormation means:	(B) (D)	Large data	ں ار: D) A=1) کا مطلب ہے: فالتوڈ یا زیادہ ڈیٹا میں کی سے۔اس آئسوٹو پ میں	or B=1 میں انفارمیش کوپ ک ³⁸ کوپ ک	بنالوجی: ب ب آ ئسول	<i>بيوٹر ژ</i> ر پي	2. كي
4. \	(A) 92 When Uranium(92 protons) protons will be in remaining	3) 146 ejects beta partic	(C) e,how many	238 كى پردڻونز كى	330 (D) ارٹنگل خارج کرتا ہے تواس کے	ر روٹونز) بیٹا پ گئ؟	ع(92) وجائے	ب بورینم راد کتنی ر	4. جد تعد
5. l	(A) 93 (From which of the following	B) 91 * Q		عل about ك	99 (D) پ ہر طرح کی انفار میشن ہا ^ص		ـ ريدر ۲۰ در	ررجه ذیر بختے میر	5. مند ک
6. 1	If the turn ratio of a transfor (A) $N_S = 10 N_p$ (B) $I_S = 10I_P$	s: (C)	Computer $N_S = \frac{N_p}{10}$	ت 10 موتو:	چکروں کی نسبہ / 1/ =)		
	(14)	(B) 2.11 S	(C	1.89 S	(D) 1.8				
8.	Speed of sound in air at 0° (A) 376 mS ⁻¹	C is: (B) 386 mS ⁻¹	(С) 231 mS ⁻¹	(D) 33°	mS ⁻¹	كاأتحصار	ز کی چیج	9. آوا

(B) Time period

(B) Joule جول

(B) Q/V

12. The presence of magnetic field can be detected by a:

(C) Stationary negative charge ما الن يكيلو جاورة سے

9. Pitch of sound more depends upon:

(A) Frequency فریکونی

10. Capacitance is defined as:

11. The unit of electric current is:

(A) Small mass

(A) Coulomb كولمب

(A) CV

(C) Wavelength وبإلينكتم

(C) QV

9. آواز کی کی کا انحصار زیاده ہوتاہے:

(D) Amplitude ايملي ثيود الم

(D) V/Q

11. الْكِتْرُك كرنك كايون ب:

واك Watt (D) (C) Ampere الميير 12. میکنیک فیلڈی موجودگی کا پیتد لگایا جاسکتا ہے:

(B) Stationary positive charge ماکن پوزیو چاری ہے

(D) Magnetic compass مینیک نیدل سے

:25-10-A-☆☆☆---

S.S.C - (Part-II) -A-2021 (For all sessions) Roll No. آروپ-I RWRG121 2- درج ذیل میں سے کوئی سے پانچ اجزاء سے منظر جوایات کی میں۔ ا کنویکس اور کئکیو لینز میں فرق واضح کھیئے۔ ii نائم بیریڈ کی تعریف کھیئے۔ 10=5x2 iv. ڈیسی بل سکیل کی وضاحت کیجیئے ۔ ۱۱۷ ریڈیس میں موصات ہے۔ Vii ریڈیس ف کرو پیرے کیام اوے؟ فو کل لیکھ سے اس کا تعلق تحریکے ہے۔ Viii ایک سادہ پینڈولم جس کی لمبائی ایک بیٹر ہے زمین براس کا ٹائم پیریڈمعلوم کیکئے جبکہ g=10ms ² ہے۔ 3- درج ذیل میں سے کوئی سے یا نچ اجزاء کے خفر جوابات کھیے۔ ر المسلم و موقو فورس (e.m.f) کی تعریف کیجئے۔ ii. او ہم کا قانون بیان کریں اوراُس کا کلیکھیں۔ iii. نائ آپریشن کیا ہے؟ اس کا تعمیل کھیں۔ ii. جول کا قانون بیان کریں۔ ۷. رزشلیس کی تعریف کریں اوراس کا پونٹ کھیں۔ ۷۱. نار گیٹ سے کیائم او ہے؟ اس کا ٹروتھ ممیل بنا کمیں۔ $10 = 5 \times 2$ iv. جول کا قانون بیان کریں۔ vii. رزسرز کے پیرالل جوڑ کی دوخصوصات ککھیں۔ iiiv. اینڈ آیریشن سے کیائر او ہے؟ 4- درج زیل میں ہے کوئی سے یا فی اجزاء کے تفرجوابات الصفے۔ 10=5x2 ii. بافلائف کی تعریف کریں۔ ۷. میلی کمیؤیکیٹن کیاہے؟ i. الیکٹرک فیلڈ کی تعریف کریں۔ iii. الْیکٹرک نوٹینشل کا یونٹ کیا ہے؟ این کی تعریف کریں۔ iv. الیکٹرونک میل کی تعریف کریں۔ ٧١. آجکل مارکیٹ میں استعمال ہونے والے دوہرا وُزر کے نام کھیں۔ vii. نیوکلیا کڈ جس کوعلامت $X = \frac{13}{6} سے ظاہر کیا گیاہے میں پروٹونز اور نیوٹرونز کی تعداد معلوم کریں۔$ vii فی نوالی کر س بوطامت ۸۸ صحصاری یا ب ب برین معلوم کرنے کا فارمولاکسیں۔ viii بریز میں جوڑے گئے کیسٹر زکی مجموعی کمپیسی ٹینس معلوم کرنے کا فارمولاکسیں۔ 18 = 2x9نوف: درج ذیل میں سے کوئی سے دوسوالات کے جوابات تح بر کرس 5. (الف)۔ساؤنڈ کی لاؤڈ نیس کی تعریف کریں۔ساؤنڈ کی لاؤڈ فیس کن عوائل پر مخصر ہوتی ہے؟
 (ب)۔ ایک 20+ کے بوائٹ چارج کو 100۷ پڑینشل والے بوائٹ ہے 500 پڑینشل والے بوائٹ پر نشقل کیاجا تا ہے۔ چارج کی مہیا کردہ از بی کی مقدار کیا ہوگی؟
 6. (الف)۔سولینا کنڈ کیا ہے؟ اس میں کرنٹ کے بہاؤے بنے والے میکنیک فیلڈ کی وضاحت کریں۔
 (ب)۔ کنویکس مرر کے سامنے 100m پر پڑے ہوئے ایک جسم کی ایک مررکے پیچھے 55m پر بھی کے دورا جسے کریں۔
 7. (الف)۔ نویکس مراک ساماوے؟ جنزل ساوات اور مثال کی مددے الفاؤی کے کی وضاحت کریں۔ 04 05 04 05 04 (ب) ایک کنڈ کم کے اطراف ایمنیقل و فرینس 10۷ ہے۔اگراس کنڈ کٹر میں ہے 1.5A کرف ہر ہا ہوتو اس کرن ہے 2 05 (For all sessions) Physics (Essay Type) Group-I Total Marks: 48 Time: 1:45 Hours Section-I 2x5=10 2- Write short answers of any five part from the following. Define time period. i. Differentiate between concave and convex lens. iv. Explain decibel scale. iii. Write two features of simple harmonic motion. vi. Define total internal reflection. v. What is silent whistle? Write its one use. vii. What is radius of curvature?Write its relation with focal length. viii. Find the time period of a simple pendulum placed on earth where length of pendulum is 1m and g=10ms⁻². 2x5=103- Write short answers of any five part from the following. State Ohm's Law and write its formula. i. Define electromotive force(e.m.f). iv. State Joule's Law. iii. What is NOT operation?Write its symbol. vi. What is NOR gate?Write its truth table. v. Define resistance and write its unit. vii. Write two features of parallel combination of resistors. viii. What is meant by AND operation? 2x5=104- Write short answers of any five part from the following. ii. Define Half life. i. Define Electric field. iv. Define Electronic mail. iii. What is unit of Electric potential? Define it. vi. Write names of two browsers in a market today. v. What is telecommunication? vii. Find the number of Proton and Neutron in the nuclide defined by ${}^{13}_{6}X$. viii. Write the formula to determine equivalence capacitance of capacitors connected in series. 9x2 = 18Section -II Note: Answer any two questions from the following. 5. (a) Define loudness of sound. On which factors does the loudness of sound depend? 04 (b) A point charge of +2C is transferred from a point at potential 100V to a point at potential 50V. What 05 would be the energy supplied by the charge? 04 6. (a) What is solenoid? Explain the production of magnetic field due to flow of current in it. (b) An object 10 cm in front of a convex mirror forms an image 5 cm behind the mirror. What is the 05

7. (a) What is nuclear transmutation? Explain Alpha(lpha) decay with the help of general equation and example. (b) By applying a potential difference of 10V across a conductor, a current of 1.5A passes through it. How much energy would be obtained from the curent in 2 minutes? 26-10-A---

04

05

focal length of the mirror.

☆☆☆	S.S.C - (Par	I-II)-A-2021	- O-4-	7 4 7 8
يددار فورز كى Roll No	(For all se	essions)	Paper Code	7 4 7 8
	Group-I	کروپ-]		
Physics (Objective Type)	Ru	P-62-21		فرخس (معروضی)
•	Time: 15 Min	ونت 15 منك nutes		مبر:12 1 مارات
، جواب کوآپ درست مجھیں، جوابی کا پی پراس سوال نمبر	تC,B,A اور D دیئے گئے ہیں،جس اک سیاہی سے بھردیں۔	پلکھیئے ہرسوال کے چار ممکنہ جوابا سے متعلقہ دائر سے و مار کریا ہیں 	ت دی کی معروضی جوالی کالی؛ ,C یا ⊆کے دائر وں میں C یا عصر عاملانہ میں	وف: بمام والات ليجوابار كما من برد A ، B ، A ، كما من برد A ، C & D to each
NOTE: Write answers to the questions	on objective answer she	et provided. Four p	A B.C or D given i	n front of each
question are given. Which answer you co	onsider correct, in the co	rresponding on old	,,-i= .	,
question with Marker or pen ink on the	answer sneet provided.			
1.1. SI unit for refractive index is:			5 یونٹ ہے: 1- در بات	1.1. ريفريكڻيوانڏيكس كاا حيار وي
(A) m / (B) 1	کوئی یونٹ نہیں No unit	نیوٹن میٹر N.m (C)		جول فی کولمب 2. الیکٹرک فیلڈلائنز ہم
2 Electric field lines:			_	2. ایسرک کیلد لاسز ہم ایک دوسرے کوعبور نہیں
(A) always cross each other	0, 0	(B) never cross e		ایک دومرے وجوری
(C) Cross each other in the reg	jion of strong field المارية	قے میں ایک دوسرے کوعبور کر تی تہ میں ہیں۔	ریاده میلدوائے علا کم فراٹ بان	
(D) Cross each other in the reg	jion of weak field الماين	قے میں ایک دوسرے کوعبور کر وزیر از میں مل	م سیندوا کے علا ا.0 جارج 10 سیکنڈ میں گذر	5C C to (1/1 3
3. If 0.5 C of charge passes throug	h a wire in 10 sec then	تاہے تو تاریس	٠٠٠ ڪياري ١٥ سينگر ٻيل لار	ک. ۲۰ دای ت ۱۷وین را را کرنزمه به وگا
current in wire will be:	*	(O) 10 mA	(D) 100	mA
(A) 50 mA (B)	.571	(C) 10 mA	کرنٹ کے بہاؤ کی دجہ ہے:	4. كند كمر مين اليكثرك
4. An electric current in conductors	s is due to the flow of:	(B) Negative ions	14.0	, , -
پوزیلی آکنز A) Positive ions)		(D) Docitive char	لازينومارح مم	
آزادالیکٹروز Free electrons (C)		(5) / 5511115	پر سیار ہار ہوتی ہے۔ بکنونک فیلڈ کی سمت ہوتی ہے	5. بارمیکنیٹ کے اندرم
5. Direction of magnetic field lines(A) From side to side	A Ctale (more tale)			5
(A) From side to side	ے ماؤتھ پول کی طرف ole ا	نارتھ بول۔		
(B) From north pole to south p(C) From south pole to north pol		ساؤتھ پول		
(D) There are no magnetic fiel	يلڈ لائنرنہيں ہوتيں	· C. C.		
6. If $X = \overline{A+B}$ then 'x' is '1' whe	en:		X تو'x'ليول'1'پر ہوگیا گر	=A+B / .6
(A) $A=1$, $B=1$ (B)	A=0, B=0	(C) A=0, B=1	D) A=1))سٹم(CBIS)کے کمپونٹسر	,8≃0 کنینیون
7. Number of components for con	nputer based information) ہوتے ہیں: n	ا م (CBIS) کے کمپوتکس	۱. چينورجيندالفار- کر-
system(CBIS) are:	a production of the contract o		7 (D) 5	
(A) 10 (B)		(C) 7	5 (D) آپیٹیکل فائبر کواستعال کیاجا	8 انذارمیشن کو جھیجنر کسلیر
8 For sending information, optical	fibre is used as:		35° 361	
(A) Transmission channel	طرا میشن چ <u>ی</u>	(B) Reciever (D) Transmitter		,
(C) Decoder ۋى كوۋر		(D) Hansimer	ں پر لیمنٹ کے ایسے ایٹمز ہوتے	9. آ ئىوتوپى اىكە بى ا
9. Isotopes are atoms of same ele	ement with different.	(B) number of e	بز کی تعداد lectrons	اليكثرو
لى تعداد (A) number of protons	ンカン <u>(</u>	(n) atomic numb	اٹا مکٹمبر per	
اٹاکہاں (C) atomic mass	have the same		ميكنيك ويوزايك جيسي ركفتي	10. ويكيوم مين تمام اليكثرو
10. In a vacuum all electromagneti	c waves have the same	(C) Speed يُبِرُ		
(A) Frequency فریکوننی (B)	Amplitude 150 CF	nd 21°C Speed 22°C	شراور 21°C تمسریح بر بیواملر	11. ایکایشاسفیرک بریغ
(A) Frequency رَيُوْسَ (B) 11. Speed of sound in air at one at	mosphere of pressure a	nu Z i O O O O	1 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	سپیڈ ہوتی ہے:
temperature is:		(C) 386 ms-2	(D) 972	! ms ⁻²
	353 ms ⁻²	1-1	صله بمیشه لیاجا تا ہے:	12. رئيل جسم كيليے جسم كافا پوزيليو sitive
12. Object distance for real objects (A) zero صغر (B)	2 116	(C) negative	D) pos (D) منگیلیو	يېزىليو sitive
(B) صفر (B)	-2 770		•	

27-10-A-拉拉拉拉--- R

12. Object distance for real objects is always taken:
(A) zero صفر (B) -2

Roll No	أميدوارخوديُركر_					
	-140000	For all sess			س (انثائیہ)	فروس
		کروپ-II	0,00	65-2/	ن رائنانیا) :1:45 کھنے	
کل نمبر: 18		حصه اوّل	KOPIPE	42-21		
		.0		في اجزاء کے مفرجواہات سم	ررج ذیل میں سے کوئی سے یا ایمار میں	, - <u>2</u> i
کیجیئے اس کا ٹائم ہیریڈ سے تعلق لکھیں۔	ا کریں۔ iii. فریکونی کی تعریفہ)ادرر يترفيلفن مين فرق بيان	ii. کمپریتر	، مارات کی	ایملی ٹیوڈے کیا مراد ہے: کنکو مررادر کو یکس مرر کے	iv
ے کیائر ادہے؟ اس کا فارمولہ تکھیں۔ ے کیائر ادہے؟ اس کا فارمولہ تکھیں۔	Charles 1	1 Cal 3 6 7 6 1 m 1 5	In fold	در میان فرق بیان جینئے۔ ماریان فرک نے میں لکھ	ع سرار داور خونه ن سرر دید سازهٔ دار دارد در ده دانه که	vii
	امراد ہے: ۱۷۰ رقر یکنوانڈ س۔ اس کا فو کل کینگھ ہے تعلق لکھیں۔	ف کرو پجرے کیا مرادہ؟		واتے دو میشرر نے نام میں. مجر احوالہ سرمختار جرالہ الکھا	رے ذیل میں ہے کوئی سے پار	· -3
10=5×2	w.z. t	ميث كيلئے ٹروتھ ٹيبل تحرير <u>ك</u> چيئے			النيكثروموثيوذورين كى تعريف	.i
اوراس کی بولین مساوات تریکھیئے _		یت سیسے روھ بن از ریجیئے رکشن کی تعریف کیھیے ۔	NOR II	مال کی دومثالین تح مرکیجیئر	اینالاگ البکٹرونکس کے است	.iv
ہے۔ لیکنے استعال ہونے والے دوآ لات کے نام تحریر کیے	اً۷. کرنٹ کی بیانش کے دی فاق مصرات میں مقام	ر کن ق عرایف جیئے ۔ حرک : دریں ہے جائے مرا	viii کی سر	ئرز ئين فمرق واضح کچھئے۔ مرز بین فمرق واضح کچھئے۔	اومك اورنان اوہمك كنڈكم	.vii
دا عیں ہاتھ کا اصول بیان ب <u>جیئے</u> _	نیفک فیلڈی سمت معلوم کرنے کیلئے و	معے فرمت بروار لند عمر ۱۰۰ یہ	٠,٠٠٠ ميك ير.	فج اجزاء كخقرجوامات كلمعة	بع دیل میں سے کوئی سے پان	,, -4
10=5x2		7 (A)	100	وزه کی تعرب کا میں وزه کی تعرب کا میں	كيبسينس كايون لكهيئ اورا	.i
بیان کریں ادراسکی مساوات لکھیں _	0,	: نڈریڈی ایشنز کی تعریف کری <u>ر</u>		בייט קשיקטי	انفارمیش اور کمیونیکیفن نیکنالو کست	iv
ں ہونے والی دوا ہم سر وسز کونسی ہیں؟	۷۱. انٹرنیٹ پراستعال	ب پاورے کیائر ادے؟ س	۷. چی تریمنا سرئر بد ر	ی (ا ۱)) ہے کیام ادے؟ تصویر ا پہلکھیں	اھاری ن اور سیوٹ من سیانا تو کمپیسلر زے سیر ریز جوڑ کی دو	.vii
	جن کے آئسوٹو کی کے نام کھیں۔ ب	مان معریف کریں اور ہائیڈرو ح صّہ دوم	ااا۷. اسولوچا			
18=2×9	8		- 72/2	سے دوسوالات کے جوایات	: ورج ذیل میں ہے کوئی	لو <i>ٹ</i>
	ال م	بىل مارمونك موثن كى ايك مژ	ل ينذولم كاموش	ن کیاہے؟ وضاحت کریں کہ	(الف) _سمپل ہارمونک موثر () کی ۲۰۰۰ کی دور	.5
04 - چارخ کی مہیا کردہ انرجی کیا ہوگی؟	بی کے ہوائٹ جاررج رہنتقل کیاجا تا ہے۔ کے بوائٹ جاررج رہنتقل کیاجا تا ہے۔	· liverous 2	1 16111 100	منت جارزۍ لو ۱۸۵۷ پوستا	リゾニーサンししようしい	
- چاری مهیا کرده اثر کی کیا ہوئی؟ - م		-	يقه کاربيان کرين	ہاؤی سیفتی الارم کے کا م کاطر اگ	(ال ف)۔عنڈگیٹ کیاہے۔ (میں جموعی ن	<i>,</i> b
رجهامت معلوم کریں۔ 05	فاصلہ پر پڑا ہے <mark>سام</mark> یج کی پوزیشناو	8cı ع، ہے 12cm) کی فو کل کینکتھ n	ہاں 4cm ہے کنولیس کینز جس کہ آجہ وز سکھی اسان میں	رب)۔ایک من کن اوسے (الف) نوکلیئروانس مرتبوش	.7
04	Th.				(الف) نیوکلیئرزانس مونیشر (ب)۔اگرایک تاریس 5C	
05	h	م بہتا ہے؟	م معنا الريال لما الراء م			
	pe) Group-I	(For all	eossio	ns)		
Physics (Essay Type Time: 1:45 Hours	po, 0.2.1.1	Section	n-I		Total Marks:	
2- Write short answers o	f any five part from	the following				5=10
i. What is meant by A	mplitude?	ii. Dif	erentiate l	etween compres	sion and rarefact	ЮП. DF.
Dofine frequency Wri	mplitude? ite its relation with tim	e period. IV. Dit	rerentiate	SELMECH COMOGNE		
III. Delitte frequency.	I'l I formunant of C	ound? vi Wi	at is mear	it by refractive inc	dex?Write its form	nula.
v. What is meant by a	udible frequency of s	the speed of sou	ind.	it by refractive inc	dex?Write its form	nula.
v. What is meant by at vii. Write the names of	two factors affecting	the speed of sou	ind.	it by refractive inc		nula. c5=10
v. What is meant by an vii. Write the names of viii. What is radius of cu	two factors affecting urvature?Write its relations and five part from	the speed of socation with focal le	ind.	with table for NO	2) R gate.	c5=10
v. What is meant by an vii. Write the names of viii. What is radius of cu	two factors affecting urvature?Write its relations and five part from	the speed of socation with focal le	ind.	ruth table for NO	2) R gate. use of analogue e	<5=10 electronics
v. What is meant by an vii. Write the names of viii. What is radius of cu. 3- Write short answers of i. Define electromotive iii. Define AND operation v. Define mutual induction.	two factors affecting arvature? Write its relation and write its book on and write its book otion.	the speed of sou ation with focal le the following. equation. ean expression.	ii. Write iv. Write vi. Write	ruth table for NO wo examples of t names of two cur	2 x R gate. use of analogue e rent measuring d	<5=10 electronics
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v. What is meant by an vii. Write the names of viii. What is radius of cu. 3- Write short answers of i. Define electromotive iii. Define AND operative. Define mutual inductivii. Differentiate between viii. Explain right hand reserved.	two factors affecting arvature? Write its related from the force and write its from and write its book ction. The one ohmic and non-ohmic and direction of any five part from the force any five part from the two factors.	the speed of sou ation with focal le the following. equation. ean expression. mic conductors. of magnetic field the following.	ii. Write iv. Write vi. Write	ruth table for NO wo examples of t names of two cur current carrying c	R gate. use of analogue erent measuring do onductor. 2:	<5=10 electronics
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