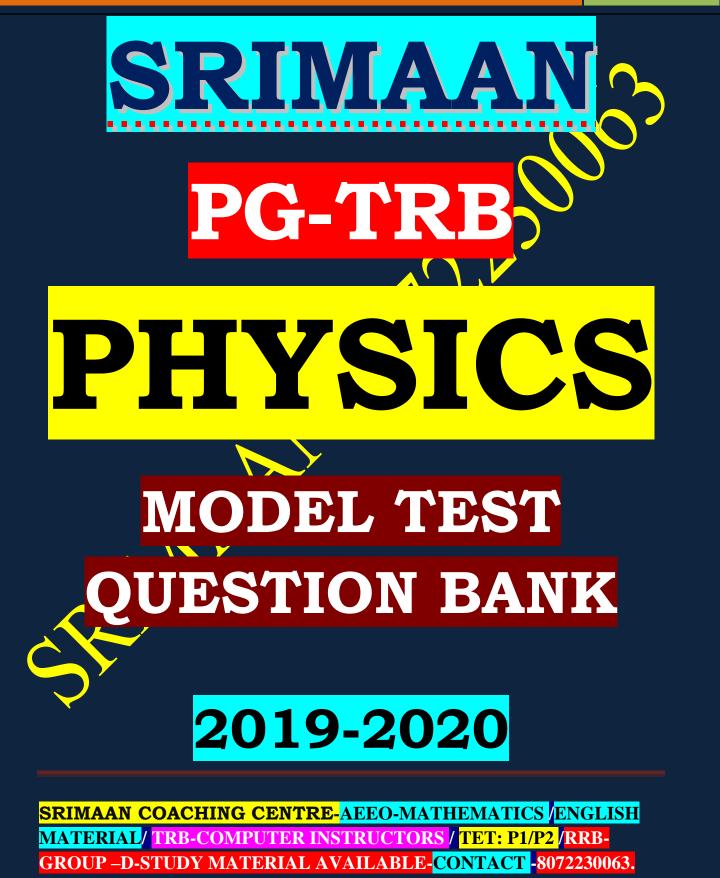
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<mark>SRIMAAN COACHING CENTRE-AEEO-MATHEMATICS /</mark>ENGLISH MATERIAL/ TRB-COMPUTER INSTRUCTORS / TET: P1/P2 /RRB-GROUP –D-STUDY MATERIAL AVAILABLE-<mark>CONTACT</mark> -8072230063.

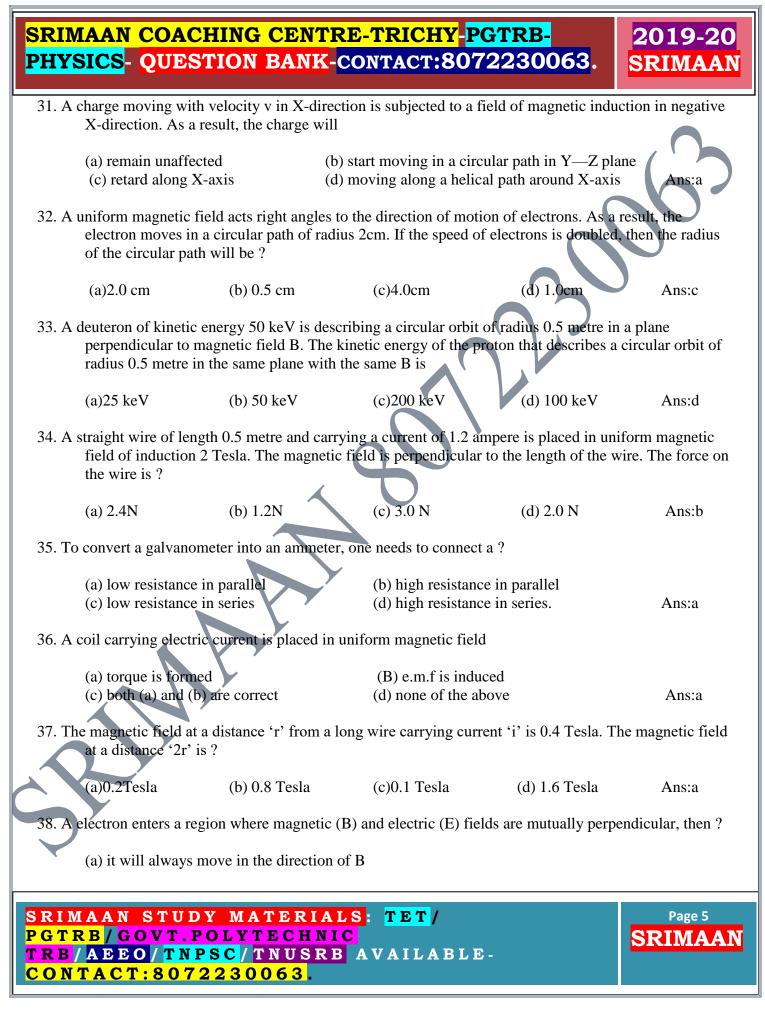
		<mark>NTRE-TRICHY</mark> - <mark> </mark> NK <mark>-CONTACT:80</mark>		2019-20 SRIMAAN				
SRIMAAN COACHING CENTRE-TRICHY								
CONTACT: 8072230063.								
PG-TRB-PHYSICS-2019-20								
Duration :1/2	hour	MODEL TES	ST Max.	Marks:50				
1. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?								
a.1/2	b.2/5	C.8/5	d.9/20	ANS.D				
2. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?								
a.10/2 1	b.11/21	C.2/7	d.5/7	ANS.A				
3. In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?								
a.1/3	b.3/4	C.7/19	d.8/21	ANS.A				
4. What is the probability of getting a sum 9 from two throws of a dice?								
a.1/6	b.1/8	C.1/9	d.1/12	ANS.C				
5. Three unbiased coi	5. Three unbiased coins are tossed. What is the probability of getting at most two heads?							
a.3/4	b.1/4	C.3/8	d.7/8	ANS.D				
6. Two dice are throw even?	n simultaneously. V	What is the probability of g	etting two numbers wl	nose product is				
a.1/2	b.3/4	C.3/8	d.5/16	ANS.B				
7. In a class, there are and 2 boys are se	• •	ls. Three students are selec	ted at random. The pro	bability that 1 girl				
SRIMAAN STU PGTRB/GOVT TRB/AEEO/T CONTACT:80	<mark>· POLYTEC</mark> NPSC / TNU	<mark>HNIC</mark> Srb Availabl	E -	Page 1 SRIMAAN				

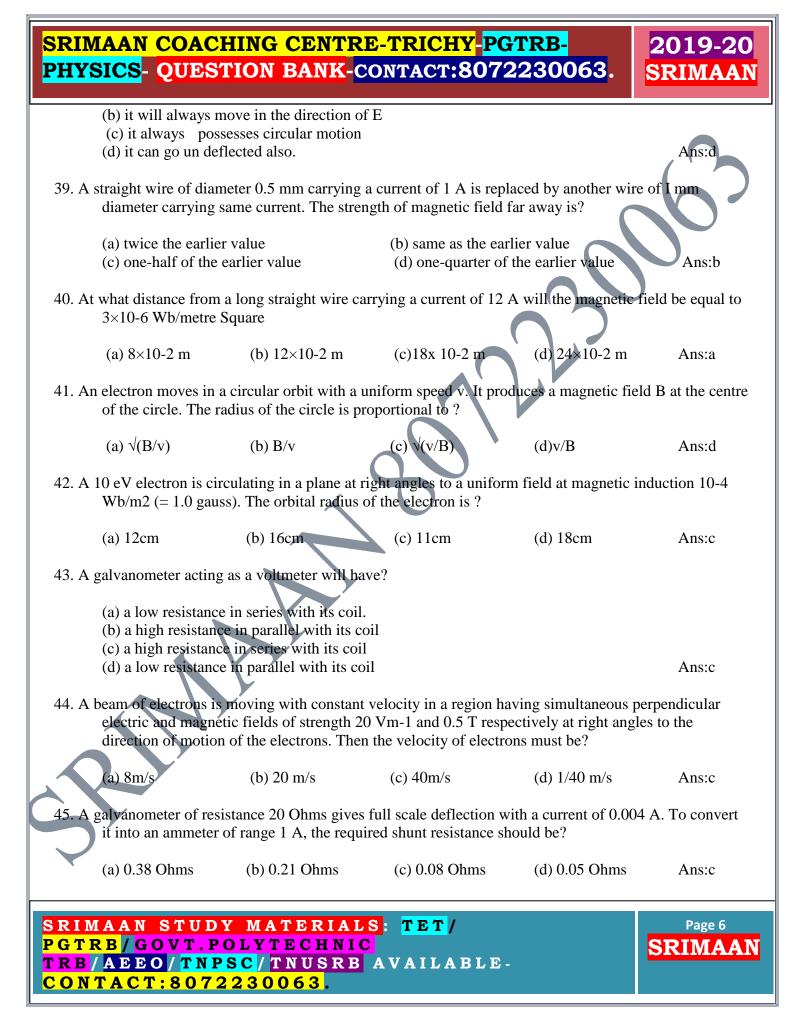
	<mark>ACHING CENT</mark> ESTION BANK			2019-20 SRIMAAN	
a.21/46	b.25/117	C.1/50	d.3/25	ANS.A	
8. In a lottery, there a getting a prize?	re 10 prizes and 25 blan	ks. A lottery is drawn a	t random. What is the	probability of	
a.1/10	b.2/5	C.2/7	d.5/7	ANS,C	
9. From a pack of 52 cards being kings	cards, two cards are drav s?	wn together at random.	What is the probabili	ty of both the	
a.1/15	b.25/57	C.35/256	d.1/221	ANS.d	
10. Two dice are toss	ed. The probability that	the total score is a prim	e number is:		
a.1/6	b.5/12	C.1/2	d.7/9	ANS.b	
11. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is:					
a.1/13	b.2/13	C.1/26	d.1/52	ANS.c	
-	white, 5 red and 6 blue b Il of them are red, is:	balls. Three balls are dra	awn at random from t	he bag. The	
a.1/22	b.3/22	C.2/91	d.2/77	ANS.c	
13. Two cards are dra heart, is:	wn together from a pack	c of 52 cards. The proba	ability that one is a sp	ade and one is a	
a.3/20	b.29/34	C.47/100	d.13/102	ANS.c	
	a at random from a pack k, Queen and King only		e probability that the	card drawn is a	
a.1/13	b.3/13	C.1/4	d.9/52	ANS.b	
15. A bag contains 6 l ball drawn is whi	black and 8 white balls.	One ball is drawn at ra	ndom. What is the pro	bability that the	
a.3/4	b.4/7	C.1/8	d.3/7	ANS.b	
16. Consider an anti-s	symmetric tensor Pij wit	h indices <i>i</i> and <i>j</i> runnin	g from 1 to 5. The nu	mber of	
independent compo	onents of the tensor is				
	UDY MATERIA			Page 2	
	<mark>. POLYTECHN</mark> NPSC / TNUSR		£ -	SRIMAAN	

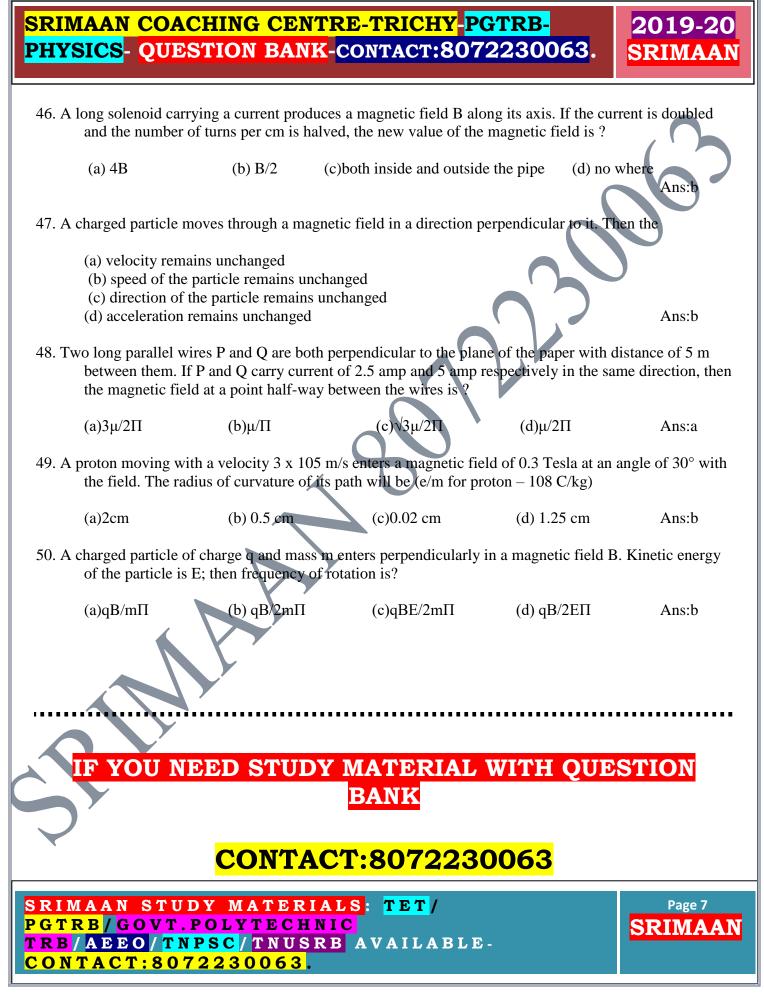
SRIMAAN COACHIN PHYSICS- QUESTIO				2019-20 SRIMAAN	
(a) 3 (b	o) 10	(c) 9	(d) 6	Ans: (b)	
17.For the set of all Lorentz trangiven below:	nsformations wit	h velocities along t	he <i>x</i> -axis consider the	e two statements	
P:If L is a Lorentz transport	formation then, I	L ⁻¹ is also a Lorentz	transformation.	\sim	
Q:If <i>L</i> 1 and <i>L</i> 2 are Lore Choose the correct option	entz transformati	ons then, L1L2 is n	ecessarily a Lorentz t	ransformation.	
(A) P is true and Q is fa(C) Both P and Q are fa		(B) Both P and (D) P is false a	-	Ans:(b)	
18. The number of non-zero row	ws in an echlon f	form is called ?			
(a) rank of a matrix(c) reduced echlon form	L	(b) cofactor of (d)conjugate o		Ans.A	
19.Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?					
(a).1/2 (b).2/5	(c).8/15	(d).9/2	0	Ans.D	
20. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?					
(a).10/21 (b).11/21	(c).2/7 (d).5/7			Ans.A	
21. The SI standard of time is b	ased on:				
 (a). the daily rotation of the earth (b). the frequency of light emitted by Kr86 (c). the yearly revolution of the earth about the sun (d). none of these Ans:D 					
22. A nanosecond is:					
A. 10^9 s B	10^{-9} s	C. 10^{-10} s	D. 10 ⁻¹⁰ s	Ans: B	
23. The SI standard of length is	based on:				
A. the distance from the B. wavelength of light e C. wavelength of light e	mitted by Hg198		eridian passing throu	gh Paris	
D. the speed of light				Ans: D	
SRIMAAN STUDY M PGTRB/GOVT.POL TRB/AEEO/TNPSC CONTACT:807223	Y <mark>TECHNI</mark> / TNUSRB	C	, E -	Page 3 SRIMAAN	

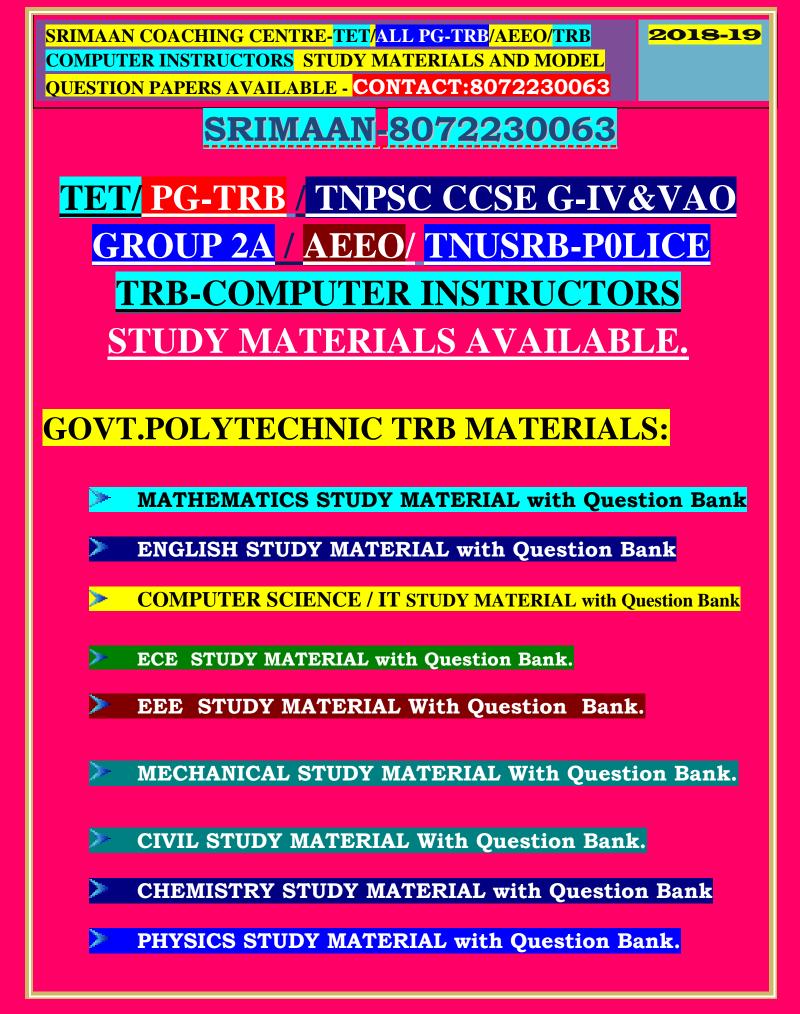
SRIMAAN COACHING CENTRE-TRICHY PGTRB-2019-20 PHYSICS - QUESTION BANK-CONTACT:8072230063. SRIMAAN 24. In 1866, the U. S. Congress defined the U. S. yard as exactly 3600/3937 international meter. This was done primarily because: A. length can be measured more accurately in meters than in yards B. the meter is more stable than the yard C. this definition relates the common U. S. length units to a more widely used system D. there are more wavelengths in a yard than in a meter Ans: C 25. Which of the following is closest to a yard in length? D.0.001m A. 0.01m B. 0.1m C. 1m Ans.c 26. A current carrying coil is subjected to a uniform magnetic field. The coil will orient so that its plane becomes ? (a) inclined at 45° to the magnetic field (b) inclined at any arbitrary angle to the magnetic field (c) parallel to the magnetic field (d) perpendicular to magnetic field Ans:c 27. Tesla is the unit of (b) magnetic field (a) magnetic flux (c) magnetic induction (d) magnetic moment Ans:b 28. Energy in a current carrying coil is stored in the form of? (a) electric field (b) magnetic field (c) dielectric strength (d) heat Ans:b 29. The total charge induced in a conducting loop when it is moved in magnetic field depends on? (a) the rate of change of magnetic flux (b) initial magnetic flux only (c) the total change in magnetic flux (d) final magnetic flux only. Ans:c 30. The magnetic induction at a point P which is at the distance of 4 cm from a long current carrying wire is 10-3 T. The field of induction at a distance 12 cm from the current will be ? (a) 3.33 x 10-4 T (b) 1.11x 10-4 T (c) 3×10-3 T (d) 9×10-3 T Ans:a SRIMAAN STUDY MATERIALS: <mark>TET</mark>/ Page 4 **PGTRB/GOVT.POLYTECHNIC** SRIMAAN TRB/AEEO/<mark>TNPSC</mark>/TNUSRB_AVAILABLE-CONTACT:8072230063.

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